

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI
APPEAL NO. 49 OF 2026**

IN THE MATTER OF:

Panipat Thermal Power Station

...Appellant

VERSUS

Commission For Air Quality Management
In National Capital Region and Adjoining
Areas & Ors.

... Respondents

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New Delhi
Dated: 13.07.2026

Filed By

(DR. ABHISHEK ATREY)
Counsel For the Respondent No.1
D-202, Additional Building Complex
Supreme Court of India, New Delhi
Mob.9810047556
Email:abhishekatrey@gmail.com

Copy to:
Mr. Rahul Khurana Adv. Email: rkhuranalegal@gmail.com

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**COUNTER AFFIDAVIT ON BEHALF OF THE
COMMISSION FOR AIR QUALITY MANAGEMENT IN
NATIONAL CAPITAL REGION & ADJOINING AREAS,
RESPONDENT NO. 1**

I, Ritesh Prasad Gurung aged about 47 years, S/o Shri Dhruba Gurung, working as Scientist 'E' in the Commission for Air Quality Management in National Capital Region and Adjoining Areas, New Delhi (hereinafter referred to as 'Commission') having office at 17th Floor, Jawahar Vyapar Bhawan, STC Building, Tolstoy Marg, New Delhi – 110001, do hereby solemnly affirm and state as under:

1. That I, in the capacity of Scientist 'E' of the Commission for Air Quality Management in National Capital Region and Adjoining Areas, am fully conversant with the facts of

R. P. Gurung
रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
वैज्ञानिक - ई / Scientist - E
राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
Commission for Air Quality Management in NCR & Adjoining Areas
भारत सरकार / Government of India
17वीं मंजिल, जवाहर व्यापार भवन (एस.टी.सी. बिल्डिंग), टोलस्टोय मार्ग,
17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
नई दिल्ली / New Delhi-110001



the case and competent to swear this affidavit on behalf of respondent no. 1.

2. That the appellant *vide* its appeal has challenged the direction bearing F. No. 120015/25/TPP/CAQM/(HPGCL-PTPS)-1597DT dated 01.04.2026 issued by the Commission for Air Quality Management in National Capital Region and Adjoining Areas (hereinafter referred to as "Commission") imposing Rs. 8,97,93,640/- as Environmental Compensation (hereinafter referred to as "EC") on the appellant under Rule 3 of the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023 (hereinafter referred to as "Rules, 2023"), read with Section 12 of the Commission for Air Quality Management in National Capital Region and the Adjoining Areas Act, 2021 (hereinafter referred to as "CAQM Act") for non – compliance or contravention of the provisions of the aforesaid rules with respect to mandatory use of a minimum five percent blend of pellets or briquettes made of crop residue, along with coal. The copy of the CAQM Act, 2021 is annexed herein as **ANNEXURE-I**. The copy of the Rules, 2023 is annexed herein as **ANNEXURE-II**.
3. That, it is respectfully submitted that as per Section 12(2)(xi) of the aforesaid CAQM Act empowers the Commission to issue directions in writing to any person, officer or any authority, which includes power to direct

R.P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक-ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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 17वीं मंजिल, जवाहर व्यापार भवन (एस.टी.सी. बिल्डिंग), टॉलस्टॉय मार्ग,
 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
 नई दिल्ली / New Delhi-110001



closure, prohibition or regulation of any industry, operation or process and also includes stoppage or regulation of supply of electricity or water or any other service. It is further submitted that Commission is empowered to take all such measures and issue directions as it deems necessary or expedient for the purpose of protecting and improving the quality of the air in the National Capital Region and Adjoining Areas.

4. That, it is respectfully submitted that paddy stubble burning continues to pose a serious environmental challenge and remains a significant contributor to the deterioration of air quality in the Delhi National Capital Region (hereinafter referred to as "NCR"). The Commission had rigorously taken up co-firing of biomass/pellets in coal based Thermal Power Plants (hereinafter referred to as "TPPs") as viable and major alternate to control stubble burning and to mitigate air pollution. Therefore, it was felt by the Commission to promote and create an eco-system for *ex-situ* crop residue management through biomass utilization in TPPs. It is further submitted that to promote the use of biomass pellets, the Ministry of Power (hereinafter referred to as "MoP"), Central Electricity Authority (hereinafter referred to as "CEA"), issued an Advisory dated 24.11.2017 to all coal-based TPPs in India, including Central, State and

R.P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक - ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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Public and Private sector Power Utilities. The Advisory stipulated that such plants shall endeavour to use a 5–10% blend of biomass pellets, primarily derived from agro-residues, along with coal. The copy of Advisory dated 24.11.2017 issued by MoP, CEA to all coal-based TPPs is annexed herein as **ANNEXURE-III**.

5. That, it is respectfully submitted that the Commission seeing the urgency and criticality actively pursued the matter of ex-situ utilisation of stubble-based biomass pellets in TPPs located within 300 kms radius of Delhi, engaging with the State Governments of Punjab, Haryana and other NCR States. It is further submitted that the Commission after extensive deliberations had issued Advisory No(s) 5-7 dated 28.07.2021 to the State Governments of Haryana, Punjab and Uttar Pradesh regarding “Ex situ stubble management for tackling the problem of stubble burning,” specifically emphasizing utilization of paddy straw in TPPs for co-firing. The copy of the Commission’s Advisory No(s) 5-7 dated 28.07.2021 is annexed herein as **ANNEXURE-IV**. The Commission, reviewed the issue of co-firing of biomass pellets with the concerned stakeholders and keeping in view the successful trials and experimentation of NTPC regarding the feasibility to co-fire bio-mass pellets / torrefied pellets with coal in proportion up to 5-10% in the TPPs, without any

R.P. Gaurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gaurung
 वैज्ञानिक - ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
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modifications in the boilers, issued Statutory Direction No. 42 dated 17.09.2021 to TPPs situated within a radius of 300 km of Delhi mandating co-firing of biomass based pellets up to 5-10 % substituting coal with immediate effect. The copy of the Commission's Direction No. 42 dated 17.09.2021 is annexed herein as **ANNEXURE-V**.

6. That, it is respectfully submitted that the progress of compliance of Direction No. 42 dated 17.09.2021 has since been continuously monitored and reviewed by the Commission through a series of meetings, including the meetings held on 15.03.2022, 14.09.2022, 25.04.2023, 22.09.2023, 10.01.2024, 21.02.2024, 13.03.2024, 20.06.2024, 30.08.2024, 08.10.2024, 21.10.2024, and 22.01.2025. These meetings involved TPPs and stakeholder agencies such as Sustainable Agrarian Mission on use of Agri-Residue in TPPs (hereinafter referred to as "SAMARTH") and officials from the MoP / CEA. It is further submitted that during these reviews plant-wise performance gaps were examined based on inputs received from SAMARTH and the concerned TPPs. Specific observations, corrective measures and operational requirements were communicated to the respective TPP representatives. Additionally, SAMARTH, CEA and the MoP were periodically requested to undertake necessary

R. P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक-ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
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facilitative and corrective actions to ensure effective compliance.

7. That, it is respectfully submitted that in the review meetings, several issues relevant to the non-compliance and sub optimal performance of the concerned TPPs and associated agencies were examined and deliberated upon, as outlined below:

- i. The tendering efforts undertaken by TPPs in Punjab and Haryana (except NTPC) were found to be inadequate. The respective State Governments were advised to address deficiencies contributing to non-compliance.
- ii. The concerned authorities were advised to devise advance procurement mechanisms for biomass pellets. It was also discussed that the Principal Secretaries (Environment) of Governments of Haryana, Punjab and Uttar Pradesh may be designated as Nodal Officers for monitoring progress and utilization of biomass co-firing in their respective States.
- iii. Owing to persistently poor progress in co-firing by Haryana Power Generation Corporation Limited (hereinafter referred to as "HPGCL") at its three TPPs viz. M/s Deenbandhu Chhotu Ram Thermal Power Plant (hereinafter referred to as DCRTPP), Yamunanagar, Haryana, M/s Panipat Thermal Power Station (hereinafter referred to as PTPS), Panipat Haryana and

R.P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक - ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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M/s Rajiv Gandhi Thermal Power Plant (hereinafter referred to as RGTPP), Hisar Haryana, the concerned authorities were directed to initiate immediate short-term tendering for procurement of biomass pellets and to establish pellet manufacturing units within plant premises to ensure assured supply.

- iv. It was observed that pellet procurement through tendering remained substantially far from satisfactory levels. Accordingly, during the stakeholder meetings organized by MoP on 03.10.2022 and 15.02.2023, TPPs were strongly advised to establish their own pellet manufacturing plants and to expedite short-term procurement processes to secure at least 5% co-firing. Concerned agencies were also advised to expedite subsidy schemes and financial facilitation mechanisms to support pellet manufacturing plants. The copy of the minutes of meeting of the stakeholders meeting is annexed herein as **ANNEXURE-VI**.

8. That, it is respectfully submitted that in order to strengthen the biomass pellet supply chain and improve the compliance status of TPPs, the Commission, issued its Advisory No. 11 dated 30.08.2023 for adoption of the benchmark pricing mechanism to substantially scale up biomass co-firing in TPPs, thereby ensuring effective implementation of Statutory Direction No. 42 in its true

R.P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक-ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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letter and spirit. The copy of the Commission's Advisory No.11 dated 30.08.2023 is annexed herein as **ANNEXURE-VII.**

9. That, it is respectfully submitted that Ministry of Environment Forest and Climate Change (hereinafter referred to as "MoEF&CC") has notified Rules, 2023 read with Corrigendum GSR 522(E), dated 18.07.2023 which are applicable to National Capital Region and the Adjoining Areas as defined respectively in clauses (f) and (a) of sub-section (1) of section 2 of the CAQM Act. It is further submitted that, Rule 2 of the Rules, 2023 mandates coal based TPPs of power generation to utilise a minimum five per cent (min. 5%) blend of pellets or briquettes made of crop residue along with coal and Rule 3 of the Rules, 2023 also empowers the Commission or its authorized officer to impose and collect the EC from non-compliant TPPs on annual basis for non-utilisation of crop residue as per Rule 2 of the Rules, 2023.
10. That, it is respectfully submitted that the issue was considered by the Hon'ble Supreme Court in M.C. Mehta v. Union of India W.P. (Civil) No. 13029 of 1985, wherein the Hon'ble Court, vide order dated 13.12.2023, *inter alia*, directed the MoP "*To ensure that all Thermal Power Plants (TPPs) within range of 300 km of Delhi and all captive TPPs implement the CAQM direction for co-firing*

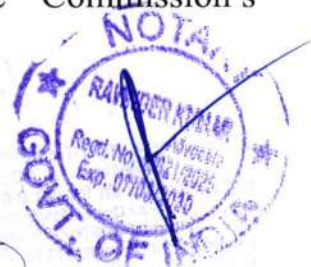

 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक - ई / Scientist - E
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 नई दिल्ली / New Delhi-110001



minimum 5% of biomass along with coal.” The copy of the Hon’ble Supreme Court’s order dated 13.12.2023 in Writ Petition (Civil) No. 13029 of 1985 M.C. Mehta Vs. Union of India and ors., is annexed herein as **ANNEXURE-VIII**.

11. That, it is respectfully submitted that the Commission, *vide* letter dated 26.12.2023 informed the Secretary, MoP, that despite regular monitoring and follow-ups by the Commission and the MoP the progress made by the TPPs is far from adequate. The copy of the Commission’s letter dated 26.12.2023 is annexed herein as **ANNEXURE-IX**. The Commission reviewed the compliance status in the meeting held on 10.01.2024 and recorded that certain TPPs exhibiting persistently poor or average performance were required to immediately rectify deficiencies and ensure adherence to mandated targets. It was categorically reiterated that failure to achieve the prescribed co-firing targets would attract imposition of EC in accordance with the notified schedule under the Rules, 2023, without prejudice to any other legal action. It is further submitted that, the Commission thereafter escalated the matter to the Chief Secretaries of Punjab, Haryana and Uttar Pradesh *vide* communications dated 09.02.2024 and 13.02.2024, seeking appropriate cognizance and intervention at the highest administrative level to ensure compliance by the concerned TPPs. The copy of the Commission’s

R.P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक - ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
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Communication dated 09.02.2024 and 13.02.2024 to the Chief Secretaries of Punjab, Haryana and Uttar Pradesh is annexed herein as **ANNEXURE-X**.

12. That, it is respectfully submitted that in view of the persistently poor performance, the Commission on 15.02.2024 issued notice to the PTPS to submit its action plan. The copy of the Commission's notice dated 15.02.2024 issued to PTPS is annexed herein as **ANNEXURE-XI**. Further, PTPS submitted its reply vide letter dated 07.03.2024. The copy of the PTPS reply dated 07.03.2024 is annexed herein as **ANNEXURE-XII**. The progress was reviewed by the Commission on 21.02.2024 and 13.03.2024 wherein it was observed that, cumulatively, only 4.83% of the overall co-firing target for 2024 had been achieved by eleven (11) TPPs up to February 2024, which was grossly inadequate and not at all satisfactory. The reiterated that continued non-compliance would attract levy of EC in the ensuing financial year, without prejudice to any other appropriate legal action.
13. That, it is respectfully submitted that during 2024 overall implementation was further assessed through a High-Level Joint Inspection conducted by senior officials of the Commission, the CEA, MoP and SAMARTH. Based on the findings of the Joint High-Level inspection, the

R. P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक-ई / Scientist - E
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 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
 नई दिल्ली / New Delhi-110001



Commission reiterated specific action points to MoP and SAMARTH *vide* communications dated 03.06.2024 and 24.07.2024 under intimation to the concerned State Pollution Control Boards (hereinafter referred to as “SPCBs”). The Commission emphasized the need for strict compliance with the 2023 Rules by fostering co-firing efforts through intensified monitoring, scaling up of production and utilization, strengthening of supply chains, and augmentation of manufacturing capacity for both torrefied and non-torrefied biomass pellets. The copy Commission’s communication dated 03.06.2024 and 24.07.2024 is annexed herein as **ANNEXURE-XIII**.

14. That, it is respectfully submitted that considering the progress made, the Commission convened further review meetings on 21.10.2024 and 22.01.2025 and issued specific action points to ensure compliance with Direction No. 42 and the Rules, 2023. During the review meeting dated 21.10.2024, it was clearly reiterated that failure to comply with statutory mandates would attract coercive action in accordance with applicable provisions. The copy of the Commission’s minutes of meeting dated 21.10.2024 and 22.01.2025 is annexed herein as **ANNEXURE-XIV**.
15. That, it is respectfully submitted that upon completion of FY 2024–25, a joint review was undertaken by MoP, CEA and SAMARTH with respect to eleven (11) TPPs. It was

R. P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक - ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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observed that six (06) TPPs, namely Rajiv Gandhi Thermal Power Plant – Hisar, Deenbandhu Chhotu Ram Thermal Power Plant – Yamunanagar, Panipat Thermal Power Station - Panipat, Guru Hargobind Thermal Power Plant – Lehra Mohabbat (PSPCL), Harduaganj Thermal Power Station and Talwandi Sabo Power Limited have failed to achieve the prescribed co-firing mandates.

16. That, it is respectfully submitted that as per the information provided by the MoP, PTPS has co-fired only 61,809 Metric Tonnes in 2024-25 against the mandatory co-firing target of at least 5%, which clearly establishes the fact that entity has done only about 1.86% of biomass co-firing against a total of 32,62,142.73 Metric Tonnes of coal consumed in the year 2024-25, which was in gross violation of the Rules, 2023 on account of the fact that as per Rule 2 *"all coal based thermal power plants of power generation utilities shall mandatorily use minimum five per cent blend of pellets or briquettes made of crop residue along with coal"* and Rule 3 mandates co-firing of more than 3% for FY 2024-25 i.e. at least 97,864 Metric Tonnes so as to avoid imposition of stipulated environmental compensation. Therefore, due to consistent non-compliance, PTPS has failed to comply with the directives / mandates of the Commission and failed to comply with the statutory mandates under the Rules, 2023.

R.P. Gurung
रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
वैज्ञानिक - ई / Scientist - E
राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
Commission for Air Quality Management in NCR & Adjoining Areas
भारत सरकार / Government of India
17वीं मंजिल, जवाहर व्यापार भवन (एस.टी.सी. बिल्डिंग), टॉलस्टॉय मार्ग,
17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
नई दिल्ली / New Delhi-110001



17. That, it is respectfully submitted that SAMARTH furnished details to the Commission regarding EC applicable to the aforesaid six non-compliant TPPs in terms of the Rules, 2023. As per Rule 3 of the said Rules, TPPs located in NCR and adjoining areas were required to co-fire more than 3% crop residue-based biomass pellets during FY 2024–25 and at least 5% from FY 2025–26 onwards. The Rules prescribe graded EC for failure to achieve the stipulated targets from FY 2024–25 onwards. It is further submitted that, Rule 5 of the said Rules empowers the Commission to grant relaxation to non-compliant TPPs on a case-to-case basis, in consultation with the CEA and the Central Pollution Control Board (hereinafter referred to as “CPCB”), where non-compliance is attributable to circumstances beyond the control of the concerned TPPs. The Commission to examine representations, if any, seeking relaxation from EC under Rule 5, constituted a Committee on 21.03.2025 comprising representatives of the Commission, CEA, SAMARTH and CPCB, mandating to assess such representations in accordance with the provisions of the Rules and submit its recommendations to the Commission for appropriate consideration. The Committee also granted opportunity of personal hearings to the non-compliant

R.P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक - ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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 भारत सरकार / Government of India
 17वीं मंजिल, जवाहर व्यापार भवन (एस.टी.सी. बिल्डिंग), टॉलस्टॉय मार्ग,
 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
 नई दिल्ली / New Delhi-110001



TPPs. The copy of the Constitution of Committee on 21.03.2025 is annexed herein as **ANNEXURE-XV**.

18. That, it is respectfully submitted that the Committee held detailed deliberations on 13.06.2025, 31.07.2025, 26.08.2025, 22.09.2025, 19.01.2026 and 20.03.2026 wherein performance data, compliance status, written submissions and grounds cited for relaxation were examined in depth. During its meetings held on 13.06.2025 and 31.07.2025, the Committee undertook a comprehensive review of the overall performance of all eleven (11) identified TPPs for FY 2024–25 vis-à-vis the statutory co-firing targets prescribed under the 2023 Rules. The Committee accorded specific attention to the six (06) non-compliant TPPs. The Committee also evaluated the EC liable to be imposed for non-compliance during FY 2024–25 in accordance with the methodology prescribed under the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023. The plant-wise computation of EC, based on verified shortfall and applicable rates, is tabulated below:



R. P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक—ई / Scientist—E
 राष्ट्रीय राजधानी क्षेत्र और निम्नवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
 Commission for Air Quality Management in NCR & Adjoining Areas
 भारत सरकार / Government of India
 17वीं मंजिल, जवाहर व्यापार भवन (एसटीसी बिल्डिंग), टॉलस्टॉय मार्ग,
 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
 नई दिल्ली / New Delhi-110001

S.No.	Name of the Plants	Environmental Compensation (EC) for 2024-25			
		Biomass Co-fired in % consumption	Biomass Pellets % Required @ to be co-fired to be complied with	Environmental Compensation (EC) (in Million Rs.)	
				As per E(GT)	As per ESO (Energy injected into grid)
1	JPL, Jhajjar (Apparva Energy)	4.11 %	>3 %	0.0	0.0
2	NTPC-Dadri	3.79 %		0.0	0.0
3	IGSTPS-APCPL, Jhajjar,	3.66 %		0.0	0.0
4	GGSTP, Ropar	3.10 %		0.0	0.0
5	NPL (L&T), Rajpura	3.04 %		0.0	0.0
6	Harduaganj TPS.	2.05 %		27.40	24.63
7	RGTPP, Hisar	2.07 %		55.51	51.80
8	GHTPP Lehra Mohhabbat	2.00 %		48.66	44.52
9	PTPS, Panipat	1.86 %		89.79	80.96
10	DCRTPP, Yamuna Nagar	1.44 %		66.87	60.78
11	TSPL, Mansa	0.36 %		330.26	306.91
Total		-		618.49	569.61

*E(GT)-Electricity Generated at Generator Terminal;

ESO-Energy Sent Out or – Ex-Bus Generation.

R. P. Gurung

रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
वैज्ञानिक - ई / Scientist - E
राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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17वीं मंजिल, जवाहर व्यापार भवन (एसटीसी बिल्डिंग), टॉलस्टॉय मार्ग,
17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
नई दिल्ली / New Delhi-110001



19. That, it is respectfully submitted that the Committee decided that opportunity of personal hearing may be provided to all non-compliant TPPs. Accordingly, opportunity of personal hearing was given to all 6 non-complied TPPs. The Committee heard PTPS on 22.09.2025.
20. That, it is respectfully submitted that upon consideration of the written and oral submissions and relevant material placed on record during the hearing, the Committee observed that the explanations and grounds advanced by the PTPS were insufficient to demonstrate that the circumstances leading to non-compliance were beyond their reasonable control within the meaning of Rule 5 of the Rules, 2023. The Committee did not find any material on record which establishes force majeure-like situation or systemic impediment attributable to external factors that could justify relaxation of the statutory mandate.
21. That, it is respectfully submitted that the Committee had earlier afforded PTPS an opportunity of personal hearing, during which the submissions of PTPS were duly considered and thereafter, with a view to further ensuring that PTPS was provided reasonable and adequate opportunity of hearing to present its case and respond to the proposed action, a Show Cause Notice dated 23.12.2025 was issued proposing the imposition of EC of



R.P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक - ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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 भारत सरकार / Government of India
 17वीं मंजिल, जवाहर व्यापार भवन (एसटीसी बिल्डिंग), टॉलस्टॉय मार्ग,
 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
 नई दिल्ली / New Delhi-110001

Rs. 8,97,93,640/- (Eight crore Ninety -seven lakh ninety-three thousand six hundred forty only), thereby granting a further period of fifteen (15) days from the date of issuance of the said notice to submit its explanation. The copy of the Show Cause Notice dated 23.12.2025 issued by the Commission to PTPS is annexed herein as **ANNEXURE-XVI**.

22. That, it is respectfully submitted that in reply to the Show Cause Notice dated 23.12.2025, PTPS submitted its reply dated 06.01.2026, stating the reasons for shortfall in achieving the minimum 3% co-firing target. The reasons are as follows:

- i. **Statutory and Regulatory Constraints:** HPGCL submitted that it had co-fired 550 MT of torrefied biomass pellets during FY 2021-22 in compliance with directions of the Commission. However, pass-through of the expenditure was not initially allowed by the Haryana Electricity Regulatory Commission (hereinafter referred to as "HERC"), despite the policy of the MoP dated 08.10.2021. HPGCL approached the Appellate Tribunal for Electricity, which directed HERC to take a decision on interim arrangement within four weeks. Subsequently, while allowing pass-through, HERC imposed conditions that biomass pellets shall be procured from within Haryana, pellet manufacturers

R. P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक - ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
 Commission for Air Quality Management in NCR & Adjoining Areas
 भारत सरकार / Government of India
 17वीं मंजिल, जवाहर व्यापार भवन (एस.टी.सी. बिल्डिंग), टॉलस्टॉय मार्ग,
 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
 नई दिल्ली / New Delhi-110001



must be situated in Haryana, and co-firing shall be undertaken only after obtaining OEM approval. HPGCL submitted that compliance with these directions entailed procedural delays and created additional constraints impacting procurement during FY 2024-25.

- ii. **Restriction to Torrefied Pellets and Availability Issues:** HPGCL submitted that torrefied biomass pellet manufacturing was still at a nascent stage during 2024–25. Due to non-availability of sufficient manufacturers within Haryana and lack of established technology, suppliers required time to develop adequate production capacity. Despite best efforts, HPGCL could not procure the requisite quantum of torrefied pellets.
- iii. **Constraint Regarding Purchase of Parali through Agriculture Portal:** Pursuant to directions of the Hon'ble Chief Minister in the SLHPPC meeting, HPGCL issued a Purchase Order dated 10.05.2023 providing for direct payment to farmers for paddy straw through the Agriculture & Farmers Welfare Department portal. However, the supplier faced difficulties as the portal did not have a provision for such direct payments, which was confirmed by the Agriculture Department. The State Government granted relaxation on 21.10.2024 and the Purchase Order was amended on 07.11.2024, with a copy marked to the Commission.



R. P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक-ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
 Commission for Air Quality Management in NCR & Adjoining Areas
 भारत सरकार / Government of India
 17वीं मंजिल, जवाहर व्यापार भवन (स्टी.टी.सी. बिल्डिंग), टॉलस्टॉय मार्ग,
 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
 नई दिल्ली / New Delhi-110001

- iv. **District-wise Procurement Restrictions:** The engaged firm communicated difficulty in procuring paddy straw from the allocated districts. Although the constraint was eventually lifted by the State Government, approximately seven months of FY 2024–25 had already elapsed.
- v. **Cancellation of e-NITs due to Benchmark Price Direction:** An e-NIT dated 21.10.2024 was issued for procurement of 2 lakh MT torrefied biomass pellets. Subsequently, SAMARTH, considering MoP's revised biomass utilization policy, Commission's Direction No. 42 and the notification of the MoEF&CC regarding penalties for non-compliance, directed adherence to benchmark rates on 08.11.2024.
- vi. MoP notified benchmark price for torrefied pellets on 18.11.2024. Consequently, the tender was cancelled. A fresh e-NIT dated 31.01.2025 for 3.55 lakh MT was issued but subsequently cancelled due to insufficient bidders.

The copy of the PTPS's reply dated 06.01.2026 is annexed herein as **ANNEXURE- XVII**.

23. That, it is respectfully submitted that the Committee carefully examined the submissions and relevant records / data and noted as under:

R. P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक-ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
 Commission for Air Quality Management in NCR & Adjoining Areas
 भारत सरकार / Government of India
 17वीं मंजिल, जवाहर व्यापार भवन (एस.टी.सी. बिल्डिंग), टॉलस्टॉय मार्ग,
 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
 नई दिल्ली / New Delhi-110001



- i. **Prior Assurance and Preparedness:** The Committee noted that the Energy Department, Government of Haryana had assured on 27.02.2024 that HPGCL was fully prepared to achieve biomass co-firing targets for 2024–25. However, actual performance did not reflect adequate preparedness.
- ii. **Over-Dependence on Torrefied Pellets and Single Vendor:** It was observed that the principal reason for non-compliance by PTPS was over-reliance on procurement of torrefied pellets from a single vendor and absence of diversification in procurement strategy.
- iii. Repeated advisories were issued during review meetings emphasizing diversification of vendors and procurement strategy to mitigate supply risk.
- iv. **Delay in Feasibility Implementation at PTPS:** PTPS, owing to its ball & tube mill configuration, initiated a feasibility study through Bharat Heavy Electricals Limited (hereinafter referred to as “BHEL”) for suitability of biomass co-firing. BHEL submitted its initial report in October 2022 recommending modifications in Units 7 & 8 for trial co-firing. However, correspondence dated 19.10.2022 indicated that BHEL sought confirmation regarding pellet availability for conducting trials. The requisite follow-up and operationalization remained pending at PTPS for



R.P. Gurung

रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक – ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
 Commission for Air Quality Management in NCR & Adjoining Areas
 भारत सरकार / Government of India
 17वीं मंजिल, जवाहर व्यापार भवन (एस.टी.सी. बिल्डिंग), टॉलस्टॉय मार्ग,
 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
 नई दिल्ली / New Delhi-110001

an extended period. Only after the Commission's notice dated 15.02.2024 and the subsequent High-Level Committee visit did HPGCL complete the pending exercise and commence co-firing of torrefied pellets. The State Government of Haryana and SAMARTH were also requested to address issues of pellet and biomass availability.

- v. **Delayed Initiation and Regulatory Flagging:** The Committee observed PTPS initiated meaningful co-firing activities only after issuance of notice dated 15.02.2024 and the High-Level Committee intervention. The performance of HPGCL TPPs had earlier been flagged by the Commission before MoP and the Government of Haryana on 12.02.2024 and 09.02.2024, respectively.

24. That, it is respectfully submitted that, the Committee duly considered the response of PTPS. In view of the same, a report was subsequently submitted to the Commission, wherein, upon detailed consideration of the written and oral submissions of PTPS and the material placed on record, the Committee concluded as follows:

- i. Upon comprehensive consideration of the written / oral submissions made by PTPS-HPGCL, the material placed on record and the deliberations during review meetings and hearings, the Committee concluded that

R.P. Gurung
रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
वैज्ञानिक-ई / Scientist - E
राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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भारत सरकार / Government of India
17वीं मंजिल, जवाहर व्यापार भवन (एस.टी.सी. बिल्डिंग), टॉलस्टॉय मार्ग,
17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
नई दिल्ली / New Delhi-110001



PTPS failed to achieve the prescribed biomass co-firing targets for FY 2024–25 under the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023.

- ii. The grounds advanced by PTPS-HPGCL, including regulatory conditions imposed by the HERC, procedural requirements relating to OEM approval, benchmark price notifications issued by the MoP, procurement constraints relating to torrefied pellets, portal-related issues concerning direct payment to farmers, district-wise procurement limitations and cancellation of tenders, do not constitute circumstances beyond its reasonable control within the meaning of Rule 5 of the 2023 Rules. The Committee finds that:

- Regulatory or tariff-related conditions imposed by HERC pertain to commercial recovery of expenditure and do not suspend the statutory obligation to achieve notified co-firing percentages;
- The benchmark price framework was introduced to stabilize procurement and was applicable uniformly to all TPPs; tender cancellations and re-tendering processes were foreseeable procurement contingencies, which could have been mitigated through timely planning;



R. P. Gurung

रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
वैज्ञानिक—ई / Scientist - E
राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
Commission for Air Quality Management in NCR & Adjoining Areas
भारत सरकार / Government of India
17वीं मंजिल, जवाहर व्यापार भवन (एस.टी.सी. बिल्डिंग), टॉलस्टॉय मार्ग,
17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
नई दिल्ली / New Delhi-110001

- In the case of PTPS, delays in operationalizing feasibility recommendations and follow-up with BHEL were attributable to institutional inaction over an extended period;
 - Meaningful co-firing efforts were undertaken only after issuance of notice dated 15.02.2024 and intervention of the High-Level Committee, indicating reactive rather than proactive compliance.
- iii. The Committee further observed that no material has been placed on record to demonstrate force majeure, legal impossibility or any statutory prohibition preventing compliance. The constraints cited largely relate to administrative coordination, regulatory approvals, vendor management and procurement planning, which fall within the operational domain of the generating utility.
- iv. The Committee also noted that, despite advising repeatedly to PTPS-HPGCL to establish in-house or proximate pellet manufacturing facilities, PTPS-HPGCL failed to comply with the same.
- v. In view of the foregoing, the Committee finds no grounds to grant relaxation under Rule 5 for FY 2024-25. Accordingly, PTPS is liable for imposition of EC for the shortfall in biomass co-firing during the said financial year. The EC computed strictly in accordance

R.P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक - ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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 भारत सरकार / Government of India
 17वीं मंजिल, जवाहर व्यापार भवन (एस.टी.सी. बिल्डिंग), टॉलस्टॉय मार्ग,
 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
 नई दिल्ली / New Delhi-110001



with the prescribed regulatory methodology is compensatory and deterrent in nature, intended to secure adherence to the statutory mandate.

- vi. PTPS-HPGCL should immediately streamline its procurement framework, adopt a diversified vendor strategy including both torrefied and non-torrefied pellets as technically feasible and institutionalize advance procurement planning to secure sustained compliance in subsequent financial years.

The copy of the report of the Committee constituted for relaxation of EC is annexed herein as **ANNEXURE-XVIII**.

25. That, it is respectfully submitted that, in view of the foregoing, the Committee was not satisfied that PTPS has made out a case for relaxation under Rule 5. Accordingly, the Committee decided that EC is liable to be imposed on PTPS for the shortfall in biomass co-firing during FY 2024-25. The EC computed strictly in accordance with the prescribed regulatory methodology is compensatory and deterrent in nature, intended to secure adherence to the statutory mandate.
26. That, it is respectfully submitted that the Committee upon a comprehensive review of the representations, replies and oral submissions placed on record and having regard to the



R. P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक - ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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 भारत सरकार / Government of India
 17वीं मंजिल, जवाहर व्यापार भवन (एच.टी.सी. बिल्डिंग), टॉलस्टोय मार्ग,
 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
 नई दिल्ली / New Delhi-110001

facts and circumstances emerging in the present matter, further observed and reaffirmed that:

- i. The explanations and justifications advanced by the TPP are insufficient to establish that the circumstances cited were beyond their reasonable control within the meaning of Rule 5 of the Rules, 2023. The material on record does not demonstrate force majeure, statutory prohibition or legal impediment preventing compliance.
- ii. The constraints cited predominantly relate to operational and managerial domain of the TPP and were capable of mitigation through timely and structured managerial response and diversified procurement planning, including establishment of in-house or proximate pellet manufacturing arrangements.
- iii. Upon detailed examination of the compliance measures and actions undertaken by the TPP, there appears to be a clear lack of intent to adhere to the statutory mandate. Further, no effective efforts were evident towards achieving the prescribed co-firing targets. In view of the long-term and sustained compliance requirements aimed at preventing stubble burning incidents, the Committee was of the considered opinion that the imposition of suitable EC on the defaulting TPP is warranted. Such imposition would not only address the

R.P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक - ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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 17वीं मंजिल, जवाहर व्यापार भवन (एसटी सी. बिल्डिंग), टॉलस्टॉय मार्ग,
 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
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present non-compliance but would also serve as a deterrent.

27. That, it is respectfully submitted that the Commission on the report and recommendations of the Committee, reply of PTPS and other material available on record, was satisfied that adequate and sufficient opportunity of being heard was afforded to PTPS in line with the principles of natural justice and that no ground has been made out warranting any relaxation from the statutory requirements under the Rules, 2023. It is further submitted that the Commission, *vide* its direction bearing F. No. 120015/25/TPP/CAQM/(HPGCL-PTPS)-1597DT dated 01.04.2026, in exercise of the powers conferred upon it under Section 12 of the CAQM Act read with the provisions of the Rules, 2023, directed PTPS to deposit EC of Rs. 8,97,93,640/- (Eight crore ninety-seven lakh ninety-three thousand six hundred forty only), latest by 15.04.2026.

28. It is most respectfully submitted that the direction bearing F. No. 120015/25/TPP/CAQM/(HPGCL-PTPS)-1597DT dated 01.04.2026 has been passed strictly in accordance with the provisions of the CAQM Act, 2021 and the Rules, 2023, after affording sufficient opportunities and adequate time to the appellant to comply with the statutory mandate



R. P. Gurung

रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
वैज्ञानिक - ई / Scientist - E
राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
Commission for Air Quality Management in NCR & Adjoining Areas
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17वीं मंजिल, जवाहर व्यापार भवन (एस.टी.सी. बिल्डिंग), टॉलस्टॉय मार्ग,
17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
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relating to biomass co-firing. The material placed on record clearly demonstrates that despite continuous monitoring, repeated advisories, statutory directions, review meetings, notices and opportunities of hearing, the Appellant persistently failed to achieve the mandatory co-firing targets for FY 2024-25. The EC imposed upon the appellant has been computed strictly in accordance with the methodology prescribed under the Rules, 2023 and is compensatory as well as deterrent in nature, intended to secure effective implementation of the statutory framework aimed at mitigating air pollution and preventing stubble burning.

29. That, in view of the facts and circumstances stated hereinabove, it is respectfully submitted that the appellant has failed to make out any case against the direction bearing F. No. 120015/25/TPP/CAQM/(HPGCL-PTPS)-1597DT dated 01.04.2026. The above-mentioned submissions states that the appellant was under a statutory obligation to achieve the prescribed biomass co-firing targets under the Rules, 2023 and despite repeated advisories, review meetings, monitoring exercises, opportunities of hearing and facilitative interventions extended by the Commission and other stakeholder agencies, the appellant remained substantially non-compliant.

R. P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक - ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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 नई दिल्ली / New Delhi-110001



30. It is respectfully submitted that the appellant has failed to establish that its non-compliance was attributable to any circumstance beyond its reasonable control so as to warrant relaxation under Rule 5 of the Rules, 2023. The grounds urged by the appellant essentially relate to internal administrative, procurement and operational issues, which cannot absolve it of its statutory obligations, particularly when repeated advisories, facilitative measures and sufficient time were provided by the Commission and other stakeholder agencies.
31. It is respectfully submitted that the EC imposed upon the appellant has been computed strictly in accordance with the methodology prescribed under the Rules, 2023 and is neither arbitrary nor excessive. The levy is compensatory as well as deterrent in nature, intended to ensure effective implementation of the statutory mandate relating to biomass co-firing, thereby advancing the larger public interest of controlling stubble burning and improving air quality in the National Capital Region and adjoining areas.
32. It is further submitted that the record clearly establishes that adequate opportunities of hearing, submission of replies and personal hearings were afforded before the impugned direction was issued, and the appellant's contentions were duly examined and rejected by the Committee as well as by the Commission on valid grounds.



R.P. Gurung

रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
वैज्ञानिक - ई / Scientist - E
राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
नई दिल्ली / New Delhi-110001

REPLY TO THE CONTENTION(S) RAISED BY THE APPELLANT

33. At the outset, it is submitted that the contention raised by the appellant that principals of natural justices has not been followed in the matter is devoid of merit on account of the fact that the imposition of Environmental Compensation direction has been passed after affording repeated opportunities of hearing, considering all written and oral submissions advanced by the Appellant, examining the material placed on record and upon due consideration of the recommendations of the Committee constituted under the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023. The Environmental Compensation imposed upon the Appellant has been determined strictly in accordance with the statutory formula prescribed under Rule 3 and, therefore, warrants no interference.
34. Furthermore, it is not out of place to state here that the Appellant was repeatedly put to notice regarding its failure to comply with statutory biomass co-firing obligations. The answering respondent issued notice dated 15.02.2024, conducted multiple review meetings, afforded the Appellant a personal hearing before the Committee on

R.P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक-ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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22.09.2025 and thereafter issued a detailed Show Cause Notice dated 23.12.2025 specifically proposing imposition of Environmental Compensation. The Appellant submitted a detailed reply dated 06.01.2026, which was duly considered before the committee and the answering respondent before passing the impugned order. It is a settled principle of law that the requirement of natural justice is one of fair opportunity and not endless consultation. The doctrine of audi alteram partem stands satisfied once a party is informed of the allegations, the proposed action and is granted a reasonable opportunity to respond. The Appellant was fully aware of the basis of the proceedings and has failed to demonstrate any prejudice whatsoever. It is equally well settled that internal deliberations, recommendations or consultative processes preceding a final decision are not required to be separately furnished where the affected party has already been afforded an effective opportunity to present its case.

35. The contention that the findings recorded by the Commission are contrary to the position of the CEA is not tenable in law. The Committee constituted under Rule 5 was a multi-member expert body comprising representatives from the Commission, CEA, CPCB and SAMARTH. The recommendations relied upon in the impugned order represent the collective and considered



R. P. Gurung

रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक - ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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 भारत सरकार / Government of India
 17वीं मंजिल, जवाहर व्यापार भवन (एस टी सी, बिल्डिंग), टॉलस्टॉय मार्ग,
 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
 नई दिल्ली / New Delhi-110001

view of the statutory Committee after examination of all materials on record, including the submissions made by the Appellant and the inputs furnished by various stakeholders. The Appellant seeks to selectively rely upon isolated observations while disregarding the final conclusions reached by the Committee. In any event, no opinion, observation or recommendation of any stakeholder can override the express statutory mandate contained in Rules 2 and 3 of the Rules, 2023. The admitted facts regarding coal consumption, biomass utilization and the resulting shortfall conclusively establish non-compliance and render the Appellant liable under the statutory framework.

36. It is respectfully submitted that it has been alleged by the appellant that its request for relaxation under Rule 5 was mechanically rejected and same is contrary to the record. The said contention is misconceived and is contrary to the findings recorded by the Committee constituted under Rule 5. It is humbly submitted that Rule 5 of the Rules, 2023 confers a limited discretionary power upon the Commission to grant relaxation only in cases where any difficulty arises due to circumstances beyond the control of the concerned TPP. The burden lies upon the applicant seeking relaxation to establish the existence of circumstances beyond the control with material and

R. P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक-ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
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evidence. Mere difficulties arise from commercial, managerial, procurement or operational decisions cannot, by themselves, constitute circumstances beyond the control of the Appellant.

37. It is humbly submitted that the expression “circumstances beyond the control” occurring in the Rules 5 cannot be read in isolation and must be construed in accordance with settled principles of statutory interpretation. The provision contemplates situations where compliance is prevented by factors external to the TPP and not by circumstances arising from its own commercial, managerial, procurement or operational decisions. It is further submitted that Rule 5, being a relaxation provision, can be invoked only when the TPP establishes that its non-compliance resulted from circumstances beyond its control. Further, under any circumstances the relaxation cannot be claimed as a matter of right.

38. It is humbly submitted that Rule 5 is intended to address exceptional situations where compliance becomes impracticable due to factors external to and beyond the control of the TPP. The provision cannot be interpreted in a manner that permits relaxation merely because compliance may require commercial, managerial, procurement or operational changes. It is pertinent to state that, acceptance of such an interpretation would defeat the



रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
वैज्ञानिक - ई / Scientist - E
राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
नई दिल्ली / New Delhi-110001

very object and purpose of the Rules, 2023, which mandate adoption of biomass co-firing by all coal-based TPPs.

39. It is humbly submitted that pursuant to Rule 5, the Commission constituted a Committee comprising representatives of the Commission, CEA, SAMARTH and CPCB to examine the representations seeking relaxation. The Committee afforded PTPS sufficient opportunity of personal hearing, examined its written submissions, procurement records and compliance status and thereafter recorded its detailed findings. The Committee categorically concluded that PTPS had failed to establish the existence of any circumstance beyond its control within the meaning of Rule 5. It is further submitted that the grounds relied upon by PTPS, namely, regulatory constraints, availability of torrefied biomass pellets, logistical challenges and procurement-related difficulties, were specifically considered by the Committee. It was observed by the Committee that these factors relate to commercial and operational considerations falling within the management domain of PTPS and may indicate business or procurement challenges but do not constitute force majeure, legal impossibility or any statutory prohibition preventing compliance with the biomass co-firing mandate.

R. P. Gaurang
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gaurang
 वैज्ञानिक - ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
 नई दिल्ली / New Delhi-110001



40. It is humbly submitted that the Hon'ble Supreme Court in Appeal (Civil) No. 3556 of 1984 Novopan India Ltd., Hyderabad vs. Collector of Central Excise and Customs, Hyderabad on 14.09.1994, while hearing the issue related to seeking to take advantage of the Exemption Notification No. 55 of 1979 issued by the Central Government under Rule 8 (1) of the Central Excise Rules, 1944, *inter alia*, held that "*A person invoking an exception or an exemption provision to relieve him of the tax liability must establish clearly that he is covered by the said provision. In case of doubt or ambiguity, benefit of it must go to the State.*" The copy of the Hon'ble Supreme Court's Judgment dated 14.09.1994 in Appeal (Civil) No. 3556 of 1984 Novopan India Ltd., Hyderabad Vs. Collector of Central Excise and Customs, Hyderabad is annexed herein as **ANNEXURE-XIX**.

41. It is further submitted that exemption notifications must be interpreted strictly, the claimant must first clearly satisfy that the circumstances were beyond its control, for claiming any benefit of exemption.

42. It is humbly submitted that the Appellant does not satisfy the threshold requirements prescribed under Rule 5 of the Rules, 2023 for grant of relaxation. Consequently, the Appellant is not entitled to any exemption or relaxation from compliance with Rules 2 & 3 and the EC imposed for



R.P. Gurung

रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
वैज्ञानिक - ई / Scientist - E
राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
नई दिल्ली / New Delhi-110001

non-compliance has been levied strictly in accordance with the statutory framework.

43. The plea regarding non-availability of torrefied biomass pellets is equally devoid of merit. The record reveals that the Appellant adopted an unduly restrictive procurement strategy, remained dependent upon a limited vendor base and failed to adequately diversify its procurement arrangements despite repeated advisories from the Commission. The Appellant has not demonstrated any circumstance amounting to legal impossibility, force majeure or statutory prohibition. Mere difficulty in procurement, market fluctuations or supply-chain challenges cannot constitute circumstances beyond reasonable control. It is a settled principle that a statutory obligation cannot be avoided on account of self-created constraints or managerial inefficiencies. A regulated entity cannot be permitted to take advantage of its own omissions and thereafter seek exemption from the consequences flowing from statutory non-compliance.
44. Further, it is pertinent to note that, keeping in view the prevailing availability of torrefied biomass pellets and the technical requirements of different categories of thermal power plants, the Ministry of Power vide communication dated 16.06.2023, modified the Revised Policy for Biomass Utilisation for Power Generation through Co-

R. P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक - ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
 नई दिल्ली / New Delhi-110001



firing in Coal-Based Power Plants. Under the said policy, a clear distinction was drawn between different mill configurations, wherein, it was stated that the Thermal Power Plants equipped with Bowl Mills were specifically directed to procure and utilize non-torrefied biomass pellets, whereas Thermal Power Plants operating Ball & Race Mills or Ball & Tube Mills, such as the Appellant herein, were required to procure and utilize torrefied biomass pellets. The copy of MoP's communication dated 16.06.2023 is annexed herein as **ANNEXURE-XX**.

45. That the aforesaid policy decision was formulated precisely to ensure optimal allocation of available biomass resources, avoid unnecessary competition for torrefied pellets and maintain an efficient supply chain for those thermal power plants which, owing to their technical configuration, could utilize only torrefied biomass pellets. The policy thus contemplated a balanced distribution of demand within the biomass pellet market and sought to safeguard availability of torrefied pellets for those entities that were technically dependent upon them.
46. However, it has been observed that several thermal power plants, including those having Bowl Mill configurations, continued to seek procurement of torrefied biomass pellets despite the clear policy directive permitting and requiring them to utilize non-torrefied pellets. Such conduct



R. P. Gurung

रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
वैज्ञानिक-ई / Scientist - E
राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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17वीं मंजिल, जवाहर व्यापार भवन (एस.टी.सी. बिल्डिंग), टॉलस्टोय मार्ग,
17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
नई दिल्ली / New Delhi-110001

inevitably resulted in avoidable pressure on the limited supply of torrefied biomass pellets and distorted the procurement ecosystem envisaged under the Ministry's policy framework. In these circumstances, the Appellant cannot be permitted to rely upon a situation that was substantially contributed to by the conduct of the thermal power sector itself as a ground for claiming exemption or relaxation from a statutory obligation. It is a settled principle of law that a party cannot be allowed to take advantage of a difficulty which is self-created or contributed to by its own acts or omissions. The doctrine that no person can take benefit from his own wrong squarely applies in the present case. Having failed to demonstrate any legal prohibition, force majeure circumstance or objective impossibility preventing compliance, the Appellant cannot seek to convert procurement challenges arising from industry-wide non-adherence to the Ministry of Power's policy directions into a valid defence against statutory non-compliance under the Rules, 2023.

47. The plea of non-availability, therefore, does not constitute a circumstance beyond the reasonable control of the Appellant within the meaning of Rule 5 of the Rules, 2023. Rather, it reinforces the finding of the Commission that the shortfall in biomass co-firing was attributable to

R.P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक-ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
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inadequate procurement planning, failure to diversify supply arrangements and lack of timely compliance measures for which the Appellant alone must bear responsibility.

48. The benchmark pricing mechanism was conceived as a facilitative measure to streamline procurement and ensure market stability. It was never intended to operate as a pre-condition for procurement or as a suspension of statutory obligations pending its implementation. There existed no legal embargo preventing procurement of biomass pellets prior to the issuance of benchmark prices. Tender cancellations, re-tendering processes and procurement contingencies are ordinary commercial risks that fall within the operational domain of the generating utility and cannot be relied upon to defeat a statutory environmental mandate.
49. The Appellant's repeated assertion that it acted bona fide and undertook substantial efforts towards compliance after issuance of the Commission's notice does not absolve it of liability. Environmental compliance is preventive and continuous in nature. The environmental jurisprudence consistently recognizes the Precautionary Principle as a cornerstone of regulatory compliance, requiring regulated entities to act proactively rather than reactively. The record demonstrates that meaningful co-firing efforts were



R. P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक - ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु प्रदूषण प्रबंधन आयोग
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 भारत सरकार / Government of India
 17वीं मंजिल, जवाहर व्यापार भवन (एसटीसी बिल्डिंग), टोलस्टॉय मार्ग,
 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
 नई दिल्ली / New Delhi-110001

undertaken only after issuance of notice dated 15.02.2024 and intervention by the High-Level Committee. Subsequent efforts cannot retrospectively erase an admitted violation.

50. The Appellant has further failed to establish any entitlement to relaxation under Rule 5. Exemption provisions are required to be construed strictly and the burden rests squarely upon the person claiming such exemption. The material placed on record does not disclose any force majeure event, legal impossibility, statutory prohibition or circumstance rendering compliance objectively impossible. The constraints cited by the Appellant pertain predominantly to procurement planning, vendor management, administrative coordination and commercial arrangements. Such matters fall squarely within the managerial and operational sphere of the utility and cannot justify relaxation from a mandatory statutory obligation.
51. It is humbly submitted that it is a settled principle of law that where a statute confers discretionary power to grant exemption or relaxation, the beneficiary seeking such relief must strictly establish fulfilment of the conditions prescribed thereof. The Hon'ble Supreme Court has held that exemption and relaxation provisions are to be construed strictly and the burden lies upon the claimant to

R. P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक - ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg,
 नई दिल्ली / New Delhi-110001



demonstrate entitlement thereto. In Civil Appeal No. 3327 of 2007 Commissioner of Customs (Import), Mumbai vs. Dilip Kumar & Co., the Constitution Bench on 30.07.2018, while examining the interpretative rule to be applied while interpreting tax exemption provision when there is an ambiguity as to its applicability with reference to the entitlement of the assessee or the rate of tax to be applied, *inter-alia*, held as under:

“52. To sum up, we answer the reference holding as under:

1. *Exemption notification should be interpreted strictly; the burden of proving applicability would be on the assessee to show that his case comes within the parameters of the exemption clause or exemption notification.*
2. *When there is ambiguity in exemption notification which is subject to strict interpretation, the benefit of such ambiguity cannot be claimed by the subject/assessee and must be interpreted in favour of the revenue.”*

The copy of Hon'ble Supreme Court's Judgment dated 30.07.2018 in Civil Appeal No. 3327 of 2007 Commissioner of Customs (Import), Mumbai vs. Dilip Kumar & Co., is annexed herein as **ANNEXURE-XXI**.

52. It is further submitted that the burden lies on the Appellant for exemption under Rule 5 and the same cannot be claimed as a matter of right. That mere hardship, inconvenience or onerous performance does not amount to



R. P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक - ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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impossibility or circumstances beyond control and that a party seeking relaxation or exemption must strictly establish its entitlement thereto.

53. It is humbly submitted that under the Environmental jurisprudence, particularly under the "Precautionary Principle" and the doctrine of strict/absolute liability, the burden of proof lies on the violator. The Hon'ble Supreme Court in Vellore Citizens Welfare Forum Vs. Union of India & ors., 1996 (5) SCC 647, 1996, while dealing the issue of pollution being caused by enormous discharge of untreated effluent by the tanneries and other industries in the State of Tamil Nadu, *inter alia*, noted that "*The Onus of Proof is on the actor or the developer/industrial to show that his action is environmentally benign.*" The copy of the Hon'ble Supreme Court's order Vellore Citizens Welfare Forum Vs. Union of India & ors., 1996 (5) SCC 647, 1996 is annexed herein as **ANNEXURE-XXII**.

54. The challenge to the Commission's observations regarding establishment of pellet manufacturing facilities is equally untenable. The Commission, in exercise of its statutory functions under the CAQM Act, is empowered to issue such directions and advisories as are necessary to secure compliance with measures intended to prevent and control air pollution. The advice regarding establishment of in-house or proximate pellet manufacturing facilities was

R.P. Gurung
रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
वैज्ञानिक - ई / Scientist - E
राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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issued in response to repeated assertions by thermal power plants regarding scarcity of biomass pellets and was directly connected with securing compliance with statutory co-firing obligations. The Commission's powers under Section 12 of the CAQM Act are broad, purposive and intended to ensure effective implementation of measures aimed at improving air quality. The Appellant cannot simultaneously plead scarcity of pellets and challenge measures designed to address such scarcity.

55. The contention that Environmental Compensation ought not to have been imposed because certain compliance efforts were undertaken is contrary to the objective of the Rules, 2023. Environmental Compensation under Rule 3 is linked to actual achievement of prescribed co-firing levels and not merely to efforts or intentions. The Appellant admittedly achieved only approximately 1.86% biomass co-firing against the applicable statutory target of minimum 5%. Once the factual ingredients attracting Rule 3 stand established, the consequential liability follows. The Environmental Compensation has been calculated strictly in accordance with the prescribed formula and does not involve any arbitrary determination.

56. The Appellant's reliance upon regulatory and procurement constraints arising from directions of HERC or other authorities is equally misplaced. There exists no conflict



R.P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक - ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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between tariff-related directions and environmental compliance obligations. Commercial recovery of expenditure and procurement modalities operate in an entirely different field and cannot override a statutory obligation enacted in public interest for protection of environment and public health. It is a settled principle that economic considerations cannot be permitted to defeat environmental obligations imposed by law. No material has been produced to establish any legal prohibition preventing compliance with the biomass co-firing mandate.

57. The argument that compliance improved after procurement-related relaxations were introduced merely reinforces the Commission's case. Such improvement demonstrates that compliance was achievable once appropriate steps were undertaken. However, subsequent improvement cannot retrospectively cure the admitted shortfall during the relevant financial year. Liability under Rule 3 arises from actual non-achievement of the prescribed target and not from eventual compliance after regulatory intervention.
58. The plea of regulatory conflict is similarly misconceived. The CAQM Act confers overarching powers upon the Commission to take measures necessary for prevention and control of air pollution in the NCR and adjoining areas.

R. P. Gurung
 रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
 वैज्ञानिक-ई / Scientist - E
 राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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The directions issued by the Commission operate in furtherance of a statutory environmental mandate and cannot be diluted by commercial, tariff or administrative considerations. In the absence of any legal prohibition preventing compliance, the plea of conflict is liable to be rejected.

59. Further, the Appellant's characterization of the biomass co-firing framework as being in a transitional stage is contrary to the undisputed factual record. The Commission has actively pursued biomass co-firing since 2021 through advisories, statutory directions, stakeholder consultations and continuous monitoring. Direction No. 42 dated 17.09.2021 mandated biomass co-firing with immediate effect. The Appellant had several years to establish procurement systems, develop supply chains, undertake technical modifications and secure compliance. The plea of policy transition is therefore nothing more than an attempt to justify prolonged and persistent non-compliance.

60. In light of the foregoing submissions, it is most respectfully prayed that the present appeal, being devoid of merits, is liable to be dismissed and the direction bearing F. No. 120015/25/TPP/CAQM/(HPGCL-PTPS)-1597DT dated 01.04.2026 passed by the Commission be upheld in the interest of justice, environmental protection and



R. P. Gurung

रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
वैज्ञानिक-ई / Scientist - E
राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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effective implementation of the statutory mandate under the CAQM Act and the Rules, 2023.

61. It is most humbly prayed that the Answering Respondent craves leave of this Hon'ble Tribunal to make additional submissions, if required, during the course of proceedings.
62. It is most humbly prayed that this Hon'ble Tribunal may kindly be pleased to pass such Order(s) as may be deemed fit and proper in the facts and circumstances of the case.

R. P. Gurung

DEPONENT

रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
वैज्ञानिक - ई / Scientist - E
राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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नई दिल्ली / New Delhi-110001

VERIFICATION

Verified at New Delhi on this 13 JUL 2026 day of July, 2026 that the contents of the above affidavit are true and correct to my knowledge and as per official records maintained in the routine course of business. No part of the above affidavit is false and nothing material has been concealed there from.

IDENTIFIED BY
Ashtish Dey, CAQM

ATTESTED
NOTARY PUBLIC
GOVT. OF INDIA
NOTARY
RAYNIPUR
Regd. No. 4807/2025
Exp. 07/03/2028
GOVT. OF INDIA

R. P. Gurung

DEPONENT

रितेश प्रसाद गुरुंग / Ritesh Prasad Gurung
वैज्ञानिक - ई / Scientist - E
राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
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13 JUL 2026



सत्यमेव जयते

The Commission for Air Quality Management in National Capital Region and Adjoining Areas Act, 2021

(ACT NO. 29 OF 2021)

[As on the 6th November, 2025]

LIST OF ABBREVIATIONS USED

G.S.R.	.	.	.	.	.	<i>for</i>	General Statutory Rules.
S.O.	.	.	.	.	.	„	Statutory Order.
Notifn.	.	.	.	.	.	„	Notification.

THE COMMISSION FOR AIR QUALITY MANAGEMENT IN NATIONAL CAPITAL REGION
AND ADJOINING AREAS ACT, 2021

ARRANGEMENT OF SECTIONS

CHAPTER I

PRELIMINARY

SECTIONS

1. Short title, application and commencement.
2. Definitions.

CHAPTER II

COMMISSION FOR AIR QUALITY MANAGEMENT IN NATIONAL CAPITAL REGION AND ADJOINING AREAS

3. Constitution of Commission.
4. Appointment of Chairperson, Members and Member-Secretary.
5. Resignation and removal of Chairperson and Members.
6. Term of office of Chairperson and Members.
7. Member to act as Chairperson or to discharge his functions in certain circumstances.
8. Terms and conditions of service of Chairperson and Members.
9. Vacancies, etc., not to invalidate proceedings of Commission.
10. Procedure to be regulated by Commission.
11. Sub-Committees and other staff of Commission.

CHAPTER III

POWERS AND FUNCTIONS OF THE COMMISSION

12. Powers and functions of Commission.
13. Annual report.
14. Penalty for contravention of provisions of Act, rules, order or direction.
15. Environmental compensation.

CHAPTER IV

FINANCE, ACCOUNTS AND AUDIT

16. Grants by Central Government.
17. Accounts and audit.

CHAPTER V

MISCELLANEOUS

18. Appeal.
19. Constitution of special investigation teams.
20. Power of Central Government to issue direction.
21. Power of Central Government to call for information.
22. Bar of jurisdiction.
23. Protection of action taken in good faith.
24. Members and officers to be public servants.
25. Power of Central Government to make rules.
26. Power of Commission to make regulations.
27. Power to remove difficulties.
28. Act to have overriding effect.

SECTIONS

29. Repeal and savings of order constituting Environment Pollution (Prevention and Control) Authority for National Capital Region.
30. Savings.
31. Repeal and savings.

THE COMMISSION FOR AIR QUALITY MANAGEMENT IN NATIONAL CAPITAL
REGION AND ADJOINING AREAS ACT, 2021

ACT NO. 29 OF 2021

[12th August, 2021.]

An Act to provide for the constitution of the Commission for Air Quality Management in National Capital Region and Adjoining Areas for better co-ordination, research, identification and resolution of problems surrounding the air quality index and for matters connected therewith or incidental thereto.

BE it enacted by Parliament in the Seventy-second Year of the Republic of India as follows:—

CHAPTER I

PRELIMINARY

1. Short title, application and commencement.—(1) This Act may be called the Commission for Air Quality Management in National Capital Region and Adjoining Areas Act, 2021.

(2) It shall apply to the National Capital Region and also to adjoining areas in so far as it relates to matters concerning air pollution in the National Capital Region.

(3) It shall be deemed to have come into force on the 13th April, 2021.

2. Definitions.—(1) In this Act, unless the context otherwise requires,—

(a) “adjoining areas” means the areas in the States of Haryana, Punjab, Rajasthan and Uttar Pradesh, adjoining the National Capital Territory of Delhi and the National Capital Region, where any source of pollution is located, causing adverse impact on air quality in the National Capital Region;

(b) “Associate Member” means a member who is co-opted under sub-section (3) of section 3;

(c) “Chairperson” means the Chairperson of the Commission for Air Quality Management in National Capital Region and Adjoining Areas referred to in section 3;

(d) “Commission” means the Commission for Air Quality Management in National Capital Region and Adjoining Areas constituted under section 3;

(e) “Member” means a Member of the Commission and includes the Chairperson thereof;

(f) “National Capital Region” shall have the same meaning as assigned to it in clause (f) of section 2 of the National Capital Region Planning Board Act, 1985 (2 of 1985);

(g) “prescribed” means prescribed by rules made under this Act.

(2) The words used herein and not defined, but defined in the Environment (Protection) Act, 1986 (26 of 1986), shall have the meaning as assigned to them in that Act.

CHAPTER II

COMMISSION FOR AIR QUALITY MANAGEMENT IN NATIONAL CAPITAL REGION AND ADJOINING AREAS

3. Constitution of Commission.—(1) The Central Government shall, by notification in the Official Gazette, constitute a body to be known as the Commission for Air Quality Management in National Capital Region and Adjoining Areas to exercise the powers conferred upon, and to perform the functions assigned to, that Commission under this Act.

(2) The Commission shall consist of the following Members, namely:—

(a) a full-time Chairperson having experience of not less than fifteen years in the field of environment protection and pollution control or having administrative experience of not less than twenty-five years;

(b) a representative of the Secretary to the Government of India in the Ministry of Environment, Forest and Climate Change, who shall be an officer not below the rank of Joint Secretary, *ex officio*;

(c) five *ex officio* Members who are either Chief Secretaries, or Secretaries in-charge of the department dealing with environment protection in the National Capital Territory of Delhi and the States of Punjab, Haryana, Rajasthan and Uttar Pradesh;

(d) one full-time Member who is or has been a Joint Secretary to the Government of India;

(e) three full-time independent technical Members to be appointed from amongst persons having specific knowledge and experience in matters relating to air pollution;

(f) one technical Member from the Central Pollution Control Board, *ex officio*;

(g) one technical Member to be nominated by the Indian Space Research Organisation, *ex officio*;

(h) three Members from non-Governmental organisations having experience in matters concerning combating of air pollution;

(i) one representative of the National Institution for Transforming India, not below the rank of Joint Secretary or Adviser, *ex officio*;

(j) one officer in the rank of Joint Secretary to the Government of India to be appointed by the Central Government as a full-time Member-Secretary of the Commission;

(k) three members, being stakeholders from such sectors as agriculture, industry, transport or construction.

(3) The Commission may co-opt the following persons as Associate Members, namely:—

(a) a representative of the Ministry of Road Transport and Highways, not below the rank of Joint Secretary to the Government of India;

(b) a representative of the Ministry of Power, not below the rank of Joint Secretary to the Government of India;

(c) a representative of the Ministry of Housing and Urban Affairs, not below the rank of Joint Secretary to the Government of India;

(d) a representative of the Ministry of Petroleum and Natural Gas, not below the rank of Joint Secretary to the Government of India;

(e) a representative of the Ministry of Agriculture and Farmers' Welfare, not below the rank of Joint Secretary to the Government of India;

(f) a representative of the Ministry of Commerce and Industry, not below the rank of Joint Secretary to the Government of India;

(g) a representative of any association of commerce or industry;

(h) such other Associate Members, as may be prescribed.

(4) The Member-Secretary shall be the Chief Co-ordinating Officer of the Commission and shall assist the Commission in the discharge of its functions under this Act.

(5) The headquarters of the Commission shall be at Delhi and the Commission may, with the previous approval of the Central Government, establish offices at other places in the National Capital Region or adjoining areas.

(6) Notwithstanding anything contained in any other law for the time being in force, and notwithstanding any judgment or order of any court, the Commission shall have exclusive jurisdiction in the National Capital Region and adjoining areas in respect of matters covered by this Act and no other body, authority, individual or committee shall have any power or jurisdiction in such matters:

Provided that in case of any conflict in the orders or directions of the Commission and the Governments of the National Capital Territory of Delhi and of the States of Punjab, Haryana, Rajasthan and Uttar Pradesh or the Central Pollution Control Board or the State Pollution Control Boards of the States of Punjab, Haryana, Rajasthan and Uttar Pradesh or the Pollution Control Committee of the National Capital Territory

of Delhi or any other statutory authority set up or established under a State Act, the order as well as the direction of the Commission shall prevail.

4. Appointment of Chairperson, Members and Member-Secretary.—(1) The full-time Chairperson and full-time Members, other than *ex officio* Members, of the Commission shall be appointed by the Central Government:

Provided that every appointment under this sub-section shall, subject to the provisions of second proviso, be made on the recommendations of a Selection Committee consisting of—

(a) Minister in-charge of the Ministry of Environment, Forest and Climate Change in the Government of India--Chairperson;

(b) Minister in-charge of the Ministry of Commerce and Industry in the Government of India--member;

(c) Minister in-charge of the Ministry of Road Transport and Highways in the Government of India--member;

(d) Minister in-charge of the Ministry of Science and Technology in the Government of India--member;

(e) Cabinet Secretary--member:

Provided further that in case where the Central Government appoints a serving officer as the Chairperson under clause (a) of sub-section (2) of section 3, or the full-time Member under clause (d) thereof, then, no recommendation of the Selection Committee shall be required.

(2) No appointment of the Chairperson or a Member shall be invalid merely by reason of any vacancy of any member in the Selection Committee referred to in sub-section (1).

(3) The appointment of the Member-Secretary of the Commission shall be made by the Central Government in such manner, subject to such terms and conditions, as may be prescribed.

5. Resignation and removal of Chairperson and Members.—(1) The Chairperson or a Member, other than an *ex officio* Member, may, by notice in writing under his hand addressed to the Central Government, resign his office.

(2) The Central Government may remove the Chairperson or any Member, other than an *ex officio* Member, from his office, in such manner as may be prescribed, if such person—

(a) is adjudged an insolvent;

(b) engages during his term of office in any paid employment outside the duties of his office;

(c) is of unsound mind and stands so declared by a competent court;

(d) has so abused his position as to render his continuance in office prejudicial to the public interest;

(e) has acquired such financial or other interest as is likely to affect prejudicially his functions; or

(f) is convicted and sentenced to imprisonment for an offence which in the opinion of the Central Government involves moral turpitude:

Provided that no such Member shall be so removed, unless he has been given an opportunity of being heard.

6. Term of office of Chairperson and Members.—The Chairperson or a Member, other than an *ex officio* Member, shall hold office for a term of three years from the date on which he enters upon his office or until he attains the age of seventy years, whichever is earlier, and shall be eligible for re-appointment.

7. Member to act as Chairperson or to discharge his functions in certain circumstances.—(1) In the event of the occurrence of any vacancy in the office of the Chairperson by reason of death, resignation or otherwise, the Central Government may, by notification, authorise one of the Members to act as the Chairperson until the appointment of a new Chairperson to fill such vacancy.

(2) When the Chairperson is unable to discharge his functions owing to absence on leave or otherwise, such one of the Members as the Central Government may, by notification, authorise in this behalf, shall discharge the functions of the Chairperson until the date on which the Chairperson resumes his duties.

8. Terms and conditions of service of Chairperson and Members.—The salaries and allowances payable to, and the other terms and conditions of service of, the Chairperson and Members, other than *ex officio* Members, shall be such as may be prescribed:

Provided that neither the salary and allowances nor the other terms and conditions of service of the Chairperson or a Member shall be varied to his disadvantage after his appointment.

9. Vacancies, etc., not to invalidate proceedings of Commission.—No act or proceedings of the Commission shall be invalidated merely on the ground of existence of any vacancy or defect in the constitution of the Commission.

10. Procedure to be regulated by Commission.—(1) The Commission shall meet at such time and place as the Chairperson may think fit.

(2) Subject to the provisions of this Act and the rules made thereunder, the Commission shall have the power to lay down by regulations its own procedure.

(3) All orders and decisions of the Commission shall be authenticated by the Member-Secretary or any other officer of the Commission duly authorised by the Chairperson in this behalf.

(4) The Commission may, by general or special order, subject to such conditions and limitations, if any, as may be specified therein, delegate to the Chairperson, full-time Member, Member-Secretary or any Sub-Committee constituted under section 11, such of its powers under this Act (except the power to make regulations under section 25), as it may deem necessary or expedient for the purpose of protecting and improving the quality of the air in the National Capital Region and adjoining areas.

11. Sub-Committees and other staff of Commission.—(1) The Commission shall have at least the following three Sub-Committees—

- (a) Sub-Committee on Monitoring and Identification;
- (b) Sub-Committee on Safeguarding and Enforcement;
- (c) Sub-Committee on Research and Development.

(2) The Sub-Committee on Monitoring and Identification shall be headed by a Member of the Commission chosen by it and shall have the following additional members, namely:—

- (a) one representative from the Central Pollution Control Board;
- (b) one representative each from the State Pollution Control Board or Committee, as the case may be, of the National Capital Territory of Delhi and the States of Punjab, Haryana, Rajasthan and Uttar Pradesh;
- (c) one representative from the National Environmental Engineering Research Institute;
- (d) such other members as may be specified by regulations.

(3) The Sub-Committee on Safeguarding and Enforcement shall be headed by the full-time Chairperson of the Commission and shall have the following additional members, namely:—

- (a) one representative each, not below the rank of Secretary from the department tackling air pollution from the National Capital Territory of Delhi and the States of Punjab, Haryana, Rajasthan and Uttar Pradesh;
- (b) one representative each from the State Pollution Control Board or Committee, as the case may be, from the National Capital Territory of Delhi and the States of Punjab, Haryana, Rajasthan and Uttar Pradesh;
- (c) one officer not below the rank of Inspector General of Police or equivalent from the National Capital Territory of Delhi and the States of Punjab, Haryana, Rajasthan and Uttar Pradesh;

(d) such other members as may be specified by regulations.

(4) The Sub-Committee on Research and Development shall be headed by a full-time technical Member of the Commission and shall have the following additional Members, namely:—

(a) two technical representatives from the National Environmental Engineering Research Institute;

(b) one technical representative each from research institutions or Universities or colleges or organisations in the National Capital Territory of Delhi and the States of Punjab, Haryana, Rajasthan and Uttar Pradesh;

(c) two technical representatives from the field of medicine and research working or studying on the impact of air pollution on living beings;

(d) such other members as may be specified by regulations.

(5) The Commission may also constitute such other Sub-Committees as it thinks fit.

(6) The members of the Sub-Committees, other than *ex officio* members, shall be paid such allowances as may be prescribed.

(7) The Central Government, in consultation with the Commission, shall determine the nature and the categories of officers and other staff required to assist the Commission in the discharge of its function and provide the Commission with such officers and employees as it may deem fit.

(8) The officers and other staff of the Commission shall discharge their duties and functions under the general superintendence of the Chairperson.

(9) The salaries, allowances and conditions of service of the officers and other staff appointed under sub-section (7) shall be such as may be prescribed.

CHAPTER III

POWERS AND FUNCTIONS OF THE COMMISSION

12. Powers and functions of Commission.—(1) Notwithstanding anything contained in any other law for the time being in force, the Commission shall have the power to take all such measures, issue directions and entertain complaints, as it deems necessary or expedient, for the purpose of protecting and improving the quality of the air in the National Capital Region and adjoining areas and shall also have the duty to take all such measures as may become necessary for protecting and improving the quality of air in the National Capital Region and adjoining areas.

(2) In particular and without prejudice to the generality of sub-section (1), the Commission shall, for the purposes of sub-section (1), have the following powers to perform its duties, including taking measures to abate air pollution and to regulate or prohibit activities that are likely to cause or increase air pollution in the National Capital Region and adjoining areas, namely:—

(i) co-ordination of actions by the Governments of the National Capital Territory of Delhi and the States of Punjab, Haryana, Rajasthan and Uttar Pradesh, officers and other authorities under this Act or the rules made thereunder or under any other law for the time being in force, which is relatable to the objects of this Act;

(ii) planning and execution of a programme for the region for prevention, control and abatement of air pollution;

(iii) laying down parameters for the quality of air in its various aspects;

(iv) laying down parameters for emission or discharge of environmental pollutants from various sources whatsoever that have implications on air quality in the region:

Provided that different parameters for emission or discharge may be laid down under this clause from different sources having regard to the quality or composition of the emission or discharge of environmental pollutants from such sources that have implications on air quality in the region;

(v) restriction of areas in which any industries, operations or processes or class of industries, operations or processes, that have implications on air quality in the region, shall not be carried out or shall be carried out subject to certain safeguards;

(vi) carrying out and requiring investigations and research relating to problems of environmental pollution that have implications on air quality in the region;

(vii) inspection of any premises, plant, equipment, machinery, manufacturing or other processes, materials or substances and giving, by order, of such directions to such authorities, officers or persons as it may consider necessary to take steps for the prevention, control and abatement of air pollution in the region;

(viii) collection and dissemination of information in respect of matters relating to air pollution in the region;

(ix) preparation of manuals or codes or guidelines relating to the prevention, control and abatement of air pollution in the region;

(x) appoint officers, with prior approval of the Central Government, with such designations, as it thinks fit, for the purposes of this Act and may entrust to them such of the powers and functions under this Act or for the purposes of achieving the objects of this Act, as it may deem fit;

(xi) issue directions in writing to any person, officer or any authority and such person, officer or authority shall be bound to comply with such directions.

Explanation.—For avoidance of doubts, it is hereby declared that the power to issue directions under this section includes the power to direct—

(a) the closure, prohibition or regulation of any industry, operation or process; or

(b) stoppage or regulation of the supply of electricity or water or any other service.

(3) (a) Subject to the provisions of this section, any person authorised by the Commission in this behalf shall have a right to enter, at all reasonable times, and with such assistance as he considers necessary, any place, for the purpose of—

(i) performing any of the functions of the Commission entrusted to him;

(ii) determining whether and if so, in what manner any such functions are to be performed or whether any provisions of this Act or the rules made thereunder or any notice, order, direction or authorisation served, made, given or granted under this Act is being or has been complied with;

(iii) examining and testing any equipment, industrial plant, record, register, document or any other material object or for conducting a search of any building in which he has reasons to believe that an offence under this Act or the rules made thereunder has been or is being or is about to be committed and for seizing any such equipment, industrial plant, record, register, document or other material object if he has reasons to believe that it may furnish evidence to the Commission of an offence punishable under this Act or the rules made thereunder or that such seizure is necessary to prevent or mitigate environmental pollution;

(b) every person carrying on any industry, operation or process or handling any hazardous substance shall be bound to render all assistance to the person empowered by the Commission under clause (a) for carrying out the functions under that clause and if he fails to do so without any reasonable cause or excuse, he shall be guilty of an offence under this Act;

(c) if any person wilfully delays or obstructs any person authorised by the Commission under clause (a) in the performance of his functions, he shall be guilty of an offence under this Act;

(d) the provisions of the Code of Criminal Procedure, 1973 (2 of 1974) shall apply to any search or seizure under this section as they apply to any search or seizure made under the authority of a warrant issued under section 94 of the said Code or, as the case may be, under the corresponding provisions of the said law.

(4) (a) The Commission or any officer authorised by it in this behalf, shall, for the purpose of analysis, have power to take samples of air from any factory, premises or other place in such manner as may be prescribed;

(b) the result of any analysis of a sample taken under clause (a) shall not be admissible in evidence in any legal proceeding unless the provisions of clauses (c) and (d) are complied with;

(c) subject to the provisions of clause (d), the person taking the sample under clause (a) shall,—

(i) serve on the occupier or his agent or person in-charge of the place, a notice, then and there, in such form as may be prescribed, of his intention to have it so analysed;

(ii) in the presence of the occupier or his agent or person, collect a sample for analysis;

(iii) cause the sample to be placed in a container or containers which shall be marked and sealed and shall also be signed both by the person taking the sample and the occupier or his agent or person;

(iv) send without delay, the container or the containers to the laboratory established or recognised by the Central Government;

(d) when a sample is taken for analysis under clause (a) and the person taking the sample serves on the occupier or his agent or person, a notice under sub-clause (i) of clause (c), then, —

(i) in a case where the occupier, his agent or person wilfully absents himself, the person taking the sample shall collect the sample for analysis to be placed in a container or containers which shall be marked and sealed and shall also be signed by the person taking the sample; and

(ii) in a case where the occupier or his agent or person present at the time of taking the sample refuses to sign the marked and sealed container or containers of the sample as required under sub-clause (iii) of clause (c), the marked and sealed container or containers shall be signed by the person taking the samples,

and the container or containers shall be sent without delay by the person taking the sample for analysis to the laboratory established or recognised by the Central Government and such person shall inform the Government Analyst appointed or recognised, about the wilful absence of the occupier or his agent or person, or, as the case may be, his refusal to sign the container or containers.

(5) In discharge of its functions and exercising of its authority, the Commission and the Sub-Committees mentioned in section 11 shall be bound by such general or specific directions of the Central Government, as may be issued from time to time.

(6) In particular and without prejudice to the generality of the foregoing provisions, the Commission shall perform all or any of the following functions, namely:—

(a) take up matters *suo motu*, or on the basis of complaints made by any individual, representative body or organisation functioning in the field of environment, against any individual, association, company, public undertaking or local body carrying on any industry, operation or process;

(b) provide the mechanism and the means to implement in the National Capital Region and adjoining areas—

(i) the National Clean Air Programme;

(ii) the National Air Quality Monitoring Programme;

(iii) the National Ambient Air Quality Standards;

(c) provide an effective framework and platform in the National Capital Region and adjoining areas for—

(i) source identification of air pollutants on a periodic basis;

- (ii) taking on-ground steps for curbing air pollution;
- (iii) specific research and development in the field of air pollution;
- (iv) synergising the energies and efforts of all stakeholders in developing innovative ways to monitor, enforce and research on the issues concerning air pollution;
- (v) building a network between technical institutions working or researching in the field of air pollution;
- (vi) international co-operation including sharing of international best practices in the field of air pollution;
- (vii) training and creating a special work-force for tackling the problem of air pollution;
- (d) provide an effective frame work, action plan and take appropriate steps for—
 - (i) tackling the problem of stubble burning;
 - (ii) monitoring, assessing and inspecting air polluting agents;
 - (iii) increasing plantation;
- (e) monitoring the measures taken by the States to prevent stubble burning;
- (f) undertake and promote research in the field of air pollution;
- (g) spread awareness regarding air pollution among various sections of society and promote awareness of the collective steps that the public may take through publications, the media, seminars and other available means;
- (h) encourage the efforts of non-governmental organisations and institutions working in the field of air pollution;
- (i) any other functions as have been entrusted to any *ad hoc* committee or commission or task force or body formed for the purpose of dealing with issues concerning air pollution, stubble burning or the monitoring of related factors, in pursuance of any judicial order passed from time to time;
- (j) such other functions as it may consider necessary for the prevention of air pollution in the National Capital Region and adjoining areas.

13. Annual report.—(1) The Commission shall furnish to the Central Government an annual report containing such details of the steps taken, proposals made, researches awaited and other measures undertaken by it in pursuance of its functions under section 12, in such form and manner as may be specified by regulations.

(2) The Central Government shall cause the annual report furnished under sub-section (1) to be laid before each House of Parliament.

14. Penalty for contravention of provisions of Act, rules, order or direction.—(1) Any non-compliance or contravention of any provisions of this Act, rules made thereunder or any order or direction issued by the Commission, shall be an offence punishable with imprisonment for a term which may extend up to five years or with fine which may extend up to one crore rupees or with both:

Provided that the provisions of this section shall not apply to any farmer for causing air pollution by stubble burning or mismanagement of agricultural residue.

(2) Notwithstanding anything contained in the Code of Criminal Procedure, 1973 (2 of 1974), the offence under this Act shall be non-cognizable and triable by the Jurisdictional Judicial Magistrate of the First Class, who shall not take cognizance of the offence except upon a complaint made by the Commission or any officer authorised by the Commission in this behalf.

(3) Where any offence under this Act has been committed by a company, every person who, at the time when the offence was committed, was directly in-charge of, and was responsible to, the company for the conduct of the business of the company, as well as the company, shall be deemed to be guilty of the offence and shall be liable to be proceeded against and punished accordingly:

Provided that nothing contained in this sub-section shall render any such person liable to any punishment provided in this Act, if he proves that the offence was committed without his knowledge or that he exercised all due diligence to prevent the commission of such offence.

(4) Notwithstanding anything contained in sub-section (3), where an offence under this Act has been committed by a company and it is proved that the offence has been committed with the consent or connivance of, or is attributable to any neglect on the part of, any director, manager, secretary or other officer of the company, such director, manager, secretary or other officer shall also be deemed to be guilty of that offence and shall be liable to be proceeded against and punished accordingly.

Explanation.—For the purposes of sub-sections (3) and (4),—

(a) "company" means any body corporate, and includes a firm or other association of individuals; and

(b) "director", in relation to a firm, means a partner in the firm.

(5) Where an offence under this Act has been committed by any Department of the Government, the Head of the Department shall be deemed to be guilty of the offence and shall be liable to be proceeded against and punished accordingly:

Provided that nothing contained in this section shall render such Head of the Department liable to any punishment if he proves that the offence was committed without his knowledge or that he exercised all due diligence to prevent the commission of such offence.

(6) Notwithstanding anything contained in sub-section (5), where an offence under this Act has been committed by a Department of Government and it is proved that the offence has been committed with the consent or connivance of, or is attributable to any neglect on the part of, any officer, other than the Head of the Department, such officer shall also be deemed to be guilty of that offence and shall be liable to be proceeded against and punished accordingly.

(7) For the purpose of this section and the procedure to be followed thereunder, the provisions of the Code of Criminal Procedure, 1973 (2 of 1974), shall apply.

15. Environmental compensation.—The Commission may impose and collect environmental compensation from farmers causing air pollution by stubble burning, at such rate and in such manner, as may be prescribed.

CHAPTER IV

FINANCE, ACCOUNTS AND AUDIT

16. Grants by Central Government.—(1) The Central Government shall, after due appropriation made by Parliament by law in this behalf, pay to the Commission by way of grants such sums of money as the Central Government may think fit for being utilised for the purposes of this Act.

(2) The Commission may spend such sums as it thinks fit for performing the functions under this Act, and such sums shall be treated as expenditure payable out of the grants referred to in sub-section (1).

17. Accounts and audit.—(1) The Commission shall maintain proper accounts and other relevant records and prepare an annual statement of accounts in such form as may be prescribed by the Central Government in consultation with the Comptroller and Auditor-General of India.

(2) The accounts of the Commission shall be audited by the Comptroller and Auditor-General of India at such intervals as may be specified by him and any expenditure incurred in connection with such audit shall be payable by the Commission to the Comptroller and Auditor-General of India.

(3) The Comptroller and Auditor-General of India and any person appointed by him in connection with the audit of the accounts of the Commission under this Act shall have the same rights and privileges and authority in connection with such audit as the Comptroller and Auditor-General of India generally has in connection with the audit of Government accounts and, in particular, shall have the right to demand the production of books, accounts, connected vouchers and other documents and papers and to inspect any of the offices of the Commission.

(4) The accounts of the Commission, as certified by the Comptroller and Auditor-General of India or any other person appointed by him in this behalf, together with the audit report thereon shall be forwarded annually to the Central Government by the Commission and the Central Government shall cause the audit report to be laid, as soon as may be after it is received, before each House of Parliament.

CHAPTER V

MISCELLANEOUS

18. Appeal.—An appeal shall lie to the National Green Tribunal constituted under the National Green Tribunal Act, 2010 (19 of 2010) against any order, direction or action taken by or on behalf of the Commission constituted under section 3.

19. Constitution of special investigation teams.—Notwithstanding anything contained in any other law for the time being in force, or any judicial order by any Court, where the Commission considers it necessary so to do, it may constitute one or more special investigation teams, consisting of such officers or such persons, as it thinks necessary, for the purposes of carrying out its functions under this Act.

20. Power of Central Government to issue direction.—Notwithstanding anything contained in any other law for the time being in force, but subject to the provision of this Act, the Central Government may issue in writing such direction, as it deems fit, to the Commission or any person, officer or authority authorised by the Commission, and the Commission, person, or authority, as the case may be, shall be bound to comply with such direction.

21. Power of Central Government to call for information.—The Central Government may, from time to time, call for such information and reports from the Commission, as it deems fit and the Commission shall be bound to provide such information and report.

22. Bar of jurisdiction.—No civil court shall have jurisdiction to entertain any suit, proceeding or dispute pertaining to or arising out of the actions taken or directions issued by the Commission in respect of any matter which the Commission is empowered by or under this Act.

23. Protection of action taken in good faith.—No suit or other legal proceeding shall lie against the Central Government, the Commission, or any Member thereof, or any person acting under the direction of either the Central Government or the Commission in respect of anything which is in good faith done or intended to be done in pursuance of this Act or of any rules or any order made thereunder.

24. Members and officers to be public servants.—Every Member of the Commission and every officer appointed or authorised by the Commission to exercise functions under this Act shall be deemed to be a public servant within the meaning of section 21 of the Indian Penal Code (45 of 1860).

25. Power of Central Government to make rules.—(1) The Central Government may, by notification, make rules to carry out the provisions of this Act.

(2) In particular and without prejudice to the generality of the foregoing power, such rules may provide for all or any of the following matters, namely:—

- (a) the other Associate Members under clause (h) of sub-section (3) of section 3;
- (b) the manner of removal of Chairperson or a Member under sub-section (2) of section 5;
- (c) the salaries and allowances payable to, and the other terms and conditions of service of, the Chairperson and Members under sub-section (1) of section 8;
- (d) the allowance payable to the members, other than *ex officio* members of the Sub-Committees, under sub-section (6) of section 11;
- (e) the appointment of officers and other staff under sub-section (7) of section 11;
- (f) the salaries, allowances and conditions of service of the officers and other staff under sub-section (9) of section 11;
- (g) the manner of taking samples under clause (a) and the form of notice under sub-clause (i) of clause (c), of sub-section (4) of section 12;

(h) the rate at which, and the manner in which, the environmental compensation shall be imposed and collected under section 15;

(i) the form in which annual statement of accounts shall be prepared under sub-section (1) of section 17;

(j) any other matter which has to be, or may be, prescribed.

(3) Every rule made under this Act shall be laid, as soon as may be after it is made, before each House of Parliament, while it is in session, for a total period of thirty days which may be comprised in one session or in two or more successive sessions, and if, before the expiry of the session immediately following the session or the successive sessions aforesaid, both Houses agree in making any modification in the rule or both Houses agree that the rule should not be made, the rule shall thereafter have effect only in such modified form or be of no effect, as the case may be; so, however, that any such modification or annulment shall be without prejudice to the validity of anything previously done under that rule.

26. Power of Commission to make regulations.—(1) Subject to the provisions of this Act and the rules made thereunder, the Commission may, with the previous approval of the Central Government, by notification, make regulations to carry out the provisions of this Act.

(2) In particular and without prejudice to the generality of the foregoing power, such regulations may provide for all or any of the following matters, namely:—

(a) the procedure to be followed by the Commission under sub-section (2) of section 10;

(b) the conditions and limitations subject to which power may be delegated by the Commission under sub-section (4) of section 10;

(c) the members of each Sub-Committee under sub-sections (2), (3) and (4) of section 11;

(d) the form and the manner of furnishing annual report under section 13;

(e) any other matter which has to be, or may be, specified by regulations.

(3) Every regulation made by the Commission under this Act shall be laid, as soon as may be after it is made, before each House of Parliament, while it is in session, for a total period of thirty days which may be comprised in one session or in two or more successive sessions, and if, before the expiry of the session or the successive sessions aforesaid, both Houses agree in making any modification in the regulation or both Houses agree that the regulation should not be made, the regulation shall thereafter have effect only in such modified form or be of no effect, as the case may be; so, however, that any such modification or annulment shall be without prejudice to the validity of anything previously done under that regulation.

27. Power to remove difficulties.—(1) If any difficulty arises in giving effect to the provisions of this Act, the Central Government may, by order published in the Official Gazette, make such provisions, not inconsistent with the provisions of this Act as appear to it to be necessary or expedient for removing the difficulty:

Provided that no order shall be made under this section after the expiry of a period of two years from the commencement of this Act.

(2) Every order made under this section shall, as soon as may be after it is made, be laid before each House of Parliament.

28. Act to have overriding effect.—(1) The provisions of this Act shall have effect notwithstanding anything inconsistent therewith contained in any other law for the time being in force, any document, judgment, order, bye-law, rule, regulation, notification having the force of law in the territory of India.

(2) Notwithstanding anything contained in any other law for the time being in force or any judgment or any order of any Court and subject to the provisions of this Act, upon the notification of the constitution of the Commission under section 3, no other individual or body or authority constituted either under a law enacted by Parliament, or by a State, or appointed or nominated in terms of any judicial order, shall act upon or have jurisdiction in relation to the matters covered by this Act.

29. Repeal and savings of order constituting Environment Pollution (Prevention and Control) Authority for National Capital Region.—(1) The Order made under section 3 of the Environment (Protection) Act, 1986 (29 of 1986) constituting the Environment Pollution (Prevention and Control) Authority for the National Capital Region *vide* notification number S.O. 93(E), dated the 29th January, 1998 is hereby repealed and the Environment Pollution (Prevention and Control) Authority for the National Capital Region is hereby dissolved.

(2) Notwithstanding such repeal, anything done or any action taken by the Environment Pollution (Prevention and Control) Authority for the National Capital Region under the said Order, shall be deemed to have been done or taken under the corresponding provisions of this Act.

30. Savings.—Notwithstanding the cessation of the Commission for Air Quality Management in National Capital Region and Adjoining Areas Ordinance, 2020 (Ord. 13 of 2020), anything done or any action taken under the Ordinance so ceased, shall be deemed to have been done or taken under the corresponding provisions of this Act.

31. Repeal and savings.—(1) The Commission for Air Quality Management in National Capital Region and Adjoining Areas Ordinance, 2021 (Ord. 4 of 2021) is hereby repealed.

(2) Notwithstanding such repeal, anything done or any action taken under the Commission for Air Quality Management in National Capital Region and Adjoining Areas Ordinance, 2021 (Ord. 4 of 2021) shall be deemed to have been done or taken under the corresponding provisions of this Act.

STATEMENT OF OBJECTS AND REASONS

India is committed to create a clean environment and pollution free air as mandated in the Constitution of India. The committee appointed under the Environment (Protection) Act, 1986 has taken measures to deal with the menace of air pollution, particularly in the National Capital Region. By orders passed from time to time, the courts have also set up ad hoc committees to aid and assist the monitoring and implementation of its orders and generally to take steps to deal with air pollution. Even then, quality of air in the air shed of the National Capital Region and in the adjoining areas remains a major cause of concern.

2. There is a need to evolve and implement a consolidated approach for monitoring, tackling and eliminating the causes for air pollution and identifying, specifying and rigorously enforcing measures for elimination and mitigation of air pollution, including but not limited to, controlling or eliminating the activities of stubble burning, vehicular pollution, industrial emissions, road dust, biomass burning and urban construction. It is now considered necessary to have a statutory authority with appropriate powers, and charged with the duty of taking comprehensive measures to tackle air pollution on a war footing, with power to coordinate with concerned States and the Central Government and issue directions to statutory authorities established under various laws.

3. The commitments and obligations to environmental conservation and protection within the ambit of the targeted goals on environmental sustainability under the Sustainable Development Goals, particularly towards the issue of air pollution, is manifested in the Air (Prevention and Control of Pollution) Act, 1981, which was enacted under article 253 of the Constitution and more recently in the National Clean Air Programme. It is noticed that there is lack of a permanent, dedicated and participative mechanism adopting a collaborative and participatory approach involving relevant Central Ministries, State Governments, local bodies and other stakeholders to tackle air pollution, in the National Capital Region and Adjoining Areas.

4. It is observed that sources of air pollution particularly in the National Capital Region consist of a variety of factors which are beyond the local limits of the National Capital Region. Special focus is required on all sources of air pollution which are associated with different economic sectors, including power, agriculture, transport, industry, residential and construction. Since air pollution is not a localised phenomenon, the effect is felt in areas even far away from the source, thus creating the need for regional-level initiatives through inter-State and inter-city coordination in addition to multi-sectorial synchronization.

5. Due to the absence of an inter-sectorial, public participative, multi-State dynamic body, the Hon'ble Supreme Court had to devote its precious time in constituting various ad hoc or permanent committees at various stages to oversee the problem of air pollution in the National Capital Region and suggest mitigation measures and has been monitoring, supervising and guiding the problem of air pollution in the National Capital Region through the continuing mandamus in the case of *M.C. Mehta vs. Union of India and Others*, W.P. (C) No.13029/1985. Though in compliance of the directions of the Hon'ble Supreme Court, the Central Government had constituted the Environment Pollution (Prevention and Control) Authority for the National Capital Region with effect from 29th January, 1998 vide notification number S.O.93(E), dated 29th January, 1998, the powers and functions of said Authority were limited to section 5 of the Environment Protection Act, 1986 and to the State of Delhi without any collaboration with other nearby States thereby limiting its efficacy.

6. Noting the lack of inter-State co-operation, the Hon'ble Supreme Court had, on multiple occasions, directed the presence of Chief Secretaries of the four States in question, namely, Punjab, Haryana, Delhi and Uttar Pradesh to ensure inter-State co-operation. Due to lack of an oversight mechanism over the joint functioning of the States on issues concerning air pollution, and specifically stubble burning, the Hon'ble Supreme Court in *Aditya Dubey (minor) and Another vs. Union of India and Others*, W.P(C) No. 1135/2020, had further appointed a one-man Monitoring Committee to monitor the measures taken by the States to prevent stubble burning. The Hon'ble Supreme Court has, on numerous occasions sought to improve and propose innovative measures and research initiatives to resolve the problem of air pollution.

7. In order to provide a permanent solution and establish a self-regulated, democratically monitored mechanism for tackling air pollution in National Capital Region and adjoining areas, rather than limited and ad hoc measures, it was deemed necessary to take up immediate legislative measures to set up a Commission for Air Quality Management in National Capital Region and Adjoining Areas, which would replace the above-mentioned Committees in order to streamline the public participation, the inter-State co-operation, the expert involvement and persistent research and innovation.

8. As Parliament was not in session and there was an immediate need for legislation in this regard, the Commission for Air Quality Management in National Capital Region and Adjoining Areas Ordinance, 2020 (Ord.13 of 2020) was promulgated by the President of India on the 28th October, 2020, but a Bill to replace the said Ordinance could not be introduced in Parliament, consequently, the Ordinance got lapsed on the 12th March, 2021. Thereafter, the Commission for Air Quality Management in National Capital Region and Adjoining Areas Ordinance, 2021 (Ord. 4 of 2021) was promulgated by the President of India on the 13th April, 2021 under clause (1) of article 123 of the Constitution.

9. The Commission for Air Quality Management in National Capital Region and Adjoining Areas Bill, 2021, which seeks to replace the Commission for Air Quality Management in National Capital Region and Adjoining Areas Ordinance, 2021 (Ord. 4 of 2021), provides for—

- (a) the constitution of the Commission for Air Quality Management in National Capital Region and Adjoining Areas;
- (b) three Sub-Committees to assist the Commission, viz., Sub-Committee on Monitoring and Identification; Sub-Committee on Safeguarding and Enforcement; and Sub-Committee on Research and Development;
- (c) the powers and functions of the Commission;
- (d) the penalty for contravention of provisions of Act, rules, order or direction;
- (e) the imposition of Environmental Compensation by the Commission for causing air pollution by stubble burning.

10. The Bill seeks to replace the aforesaid Ordinance.

BHUPENDER YADAV.

NEW DELHI;
The 22nd July, 2021.

रजिस्ट्री सं. डी.एल.- 33004/99

REGD. No. D. L.-33004/99



भारत का राजपत्र The Gazette of India

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असाधारण
EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (i)
PART II—Section 3—Sub-section (i)

प्राधिकार से प्रकाशित
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नई दिल्ली, मंगलवार, जुलाई 18, 2023/आषाढ़ 27, 1945
NEW DELHI, TUESDAY, JULY 18, 2023/ASHADHA 27, 1945

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय

शुद्धिपत्र

नई दिल्ली, 18 जुलाई, 2023

सा.का.नि. 522(अ).—भारत के राजपत्र, असाधारण, भाग II, खंड 3, उप-खंड (i) में प्रकाशित पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय की अधिसूचना संख्या सा.कि.नि. 499 (अ), दिनांक 11 जुलाई, 2023 में शीर्षक की, दूसरी पंक्ति में 'मसौदा अधिसूचना' शब्द के स्थान पर 'अधिसूचना' पढ़ा जाए।

[फा. सं. क्यू-15014/16/2021-सीपीए (भाग-2]
नरेश पाल गंगवार, अपर सचिव

MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
CORRIGENDUM

New Delhi, the 18th July, 2023

G.S.R. 522(E).—In the Notification No. G.S.R. 499(E) dated 11th July, 2023 of the Ministry of Environment, Forest and Climate Change published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (i), in second line of the title, for the words 'DRAFT NOTIFICATION', read 'NOTIFICATION'.

[F. No. Q-15014/16/2021-CPA (Part-2)]
NARESH PAL GANGWAR, Addl. Secy.

4652 GI/2023

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SARVESH KUMAR
SRIVASTAVA

Digitally signed by Sarvesh Kumar
DN: cn=Sarvesh Kumar, o=Ministry of
Environment, Forest and Climate Change



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असाधारण
EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (i)
PART II—Section 3—Sub-section (i)

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NEW DELHI, WEDNESDAY, JULY 12, 2023/ASHADHA 21, 1945

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय

प्रारूप अधिसूचना

नई दिल्ली, 11 जुलाई, 2023

सा.का.नि. 499(अ).—केंद्रीय सरकार पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 3, धारा 6 और धारा 25 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, तापीय विद्युत संयंत्रों द्वारा फसल-अवशेषों के उपयोग को विनियमित करने के लिए निम्नलिखित नियम बनाती है, अर्थात्:-

1. संक्षिप्त नाम, लागू होना और प्रारंभ. —

(1) इन नियमों का संक्षिप्त नाम पर्यावरण (तापीय विद्युत संयंत्रों द्वारा फसल अवशेषों का उपयोग) नियम, 2023 है।

(2) ये राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु क्वालिटी प्रबंध आयोग अधिनियम, 2021 (2021 का 29) की धारा 2 की उपधारा (1) के क्रमशः खंड (च) और खंड (क) में यथा परिभाषित राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों पर लागू होंगे।

(3) ये राजपत्र में उनके प्रकाशन की तारीख से प्रवृत्त होंगे।

2. फसल अवशेष का उपयोग. — विद्युत उत्पादन उपयोगिताओं से संबंधित सभी कोयला आधारित तापीय विद्युत संयंत्रों को कोयले के साथ अनिवार्य रूप से फसल अवशेषों से बने गुटिका (पेलेट्स) या ब्रिकेटों के न्यूनतम पांच प्रतिशत मिश्रण का अनिवार्य रूप से उपयोग करना होगा।

3. पर्यावरणीय प्रतिकर. - नियम 2 में यथा उपबंधित फसल अवशेषों का उपयोग न करने के लिए, राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु क्वालिटी प्रबंध आयोग अधिनियम, 2021 (2021 का 29) के अधीन गठित राष्ट्रीय

राजधानी क्षेत्र और के निकटवर्ती क्षेत्रों में वायु क्वालिटी प्रबंध आयोग या उस आयोग द्वारा पराधिकृत कोई अधिकारी नीचे दी गई सारणी में विनिर्दिष्ट दर पर वार्षिक आधार पर ऐसे तापीय विद्युत संयंत्रों को पर्यावरणीय प्रतिकर अधिरोपित करेगा और उसकी वसूली करेगा:

वर्ष 2024-2025 के लिए पर्यावरणीय प्रतिकर की दर:	
वार्षिक आधार पर उपयोग किए गए फसल अवशेष गुटिका (पेलेट्स) या ब्रिकेटों का प्रतिशत	पर्यावरणीय प्रतिकर की दर (उत्पादित विद्युत की प्रति यूनिट रु.)
पाँच प्रतिशत से कम या उसके बराबर किंतु चार प्रतिशत से अधिक	0.0
चार प्रतिशत से कम या उसके बराबर किंतु तीन प्रतिशत से अधिक	0.0
तीन प्रतिशत से कम या उसके बराबर किंतु दो प्रतिशत से अधिक	0.01
दो प्रतिशत से कम या उसके बराबर किंतु एक प्रतिशत से अधिक	0.02
एक प्रतिशत से कम या उसके बराबर किंतु शून्य प्रतिशत से अधिक	0.03
वर्ष (2025-2026) से आगे के लिए पर्यावरणीय प्रतिकर की दर	
वार्षिक आधार पर उपयोग किए गए फसल अवशेष गुटिका (पेलेट्स) या ब्रिकेट का प्रतिशत	पर्यावरणीय प्रतिकर की दर (उत्पादित विद्युत की प्रति यूनिट रु.)
पाँच प्रतिशत से कम किंतु चार प्रतिशत से अधिक या उसके बराबर	0.01
चार प्रतिशत से कम किंतु तीन प्रतिशत से अधिक या उसके बराबर	0.02
तीन प्रतिशत से कम किंतु दो प्रतिशत से अधिक या उसके बराबर	0.03
दो प्रतिशत से कम किंतु एक प्रतिशत से अधिक या उसके बराबर	0.04
एक प्रतिशत से कम किंतु शून्य प्रतिशत से अधिक या उसके बराबर	0.05

4. कतिपय मामलों में इन नियमों का लागू होना – यथास्थिति, केंद्रीय विद्युत विनियामक आयोग या राज्य विनियामक आयोग, नियम 2 के उपबंधों पर विचार करने के पश्चात् विद्युत अधिनियम, 2003 (2003 का 36) के , अधीन टैरिफ अवधारित करेगा।

5. शिथलीकरण की शक्ति. - वायु क्वालिटी प्रबंध आयोग, मामला-दर-मामला के आधार पर, केंद्रीय विद्युत प्राधिकरण और केंद्रीय प्रदूषण नियंत्रण बोर्ड के परामर्श से, तापीय विद्युत संयंत्र का ऐसे तापीय विद्युत संयंत्रों के नियंत्रण से परे परिस्थितियों से उत्पन्न होने वाली किसी भी कठिनाई के समाधान के लिए नियम 2 और 3 के उपबंधों के अनुपालन से शिथलीकरण कर सकेगा है।

[फा. सं. क्यू-15014/16/2021-सीपीए (पार्ट-1)]

नरेश पाल गंगवार, अपर सचिव

MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

DRAFT NOTIFICATION

New Delhi, the 11th July, 2023

G.S.R. 499(E).—In exercise of the powers conferred by sections 3, 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules to regulate the utilisation of crop-residue by the thermal power plants, namely:-

1. Short title, application and commencement. –

(1) These rules may be called the Environment (Utilisation of Crop residue by Thermal Power Plants) Rules, 2023.

(2) They shall apply to the National Capital Region and the Adjoining Areas as defined respectively in clauses (f) and (a) of sub-section (1) of section 2 of the Commission for Air Quality Management in National Capital Region and Adjoining Areas Act, 2021(29 of 2021).

(3) They shall come into force on the date of their publication in the Official Gazette.

2. Utilisation of crop residue. - All coal based thermal power plants of power generation utilities shall mandatorily use minimum five per cent blend of pellets or briquettes made of crop residue along with coal.

3. Environmental compensation.- For non-utilisation of crop residue as provided in rule 2, the Commission for Air Quality Management in National Capital Region and Adjoining Areas, constituted under the Commission for Air Quality Management of National Capital Region and Adjoining Areas Act, 2021 (29 of 2021), or any officer authorised by that Commission, shall impose and collect the environmental compensation from such thermal power plants on annual basis at the rates specified in the table given below:

(1) Rate of environmental compensation for the year 2024-2025:	
Percentage of crop residue pellets or briquettes utilized on annual basis	Rate of environmental Compensation (Rs. Per unit of electricity generated)
Less than or equal to five per cent but more than four per cent	0.0
Less than or equal to four per cent but more than three per cent	0.0
Less than or equal to three per cent but more than two per cent	0.01
Less than or equal to two per cent but more than one per cent.	0.02
Less than or equal to one per cent but more than zero per cent	0.03
(2) Rate of environment compensation for the year (2025-2026) onwards	
Percentage of crop residue pellets or briquettes utilised on annual basis	Rate of environmental Compensation (Rs. Per unit of electricity generated)
Less than five per cent but more than or equal to four per cent	0.01
Less than four per cent but more than or equal to three per cent	0.02
Less than three per cent but more than or equal to two per cent.	0.03
Less than two per cent but more than or equal to one per cent	0.04
Less than one per cent but more than or equal to zero per cent	0.05

4. Application of these rules in certain cases- The Central Electricity Regulatory Commission or the State Regulatory Commissions, as the case may be, shall determine tariff under the Electricity Act, 2003 (36 of 2003) after taking into consideration the provisions of rule 2.

5. Power to grant relaxation - The Commission for Air Quality Management may, on case to case basis, grant relaxation to thermal power plants, in consultation with the Central Electricity Authority and the Central Pollution Control Board, for addressing any difficulty arising out of circumstances beyond the control of such thermal power plants in its compliance of the provisions of rule 2 and 3 above.

[F. No. Q-15014/16/2021-CPA (part-1)]

NARESH PAL GANGWAR, Addl. Secy.



सत्यमेव जयते
भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केंद्रिय विद्युत प्राधिकरण
Central Electricity Authority
सचिव कार्यालय
Office of the Secretary

No. CEA/TETD-TT/2017/M-25/1137-1251

Dated: 24.11.2017

To

All State Power Secretaries, Thermal Power Generating Plants/ Utilities (Public or Private), Power Equipment Manufacturers – As per list

Subject: Biomass Utilization for Power Generation through Co-firing in Pulverised Coal Fired Boilers- Advisory के बारे में ।

Dear Sir,

As you may be aware that stubble burning has been cited as a major cause of recent smog in North- West India. Stubble burning is deliberate setting fire of the straw stubble that remains after harvesting of paddy and other crops. Instead of burning in open fields, these can be collected, processed and can be used as Biomass fuel to generate power.

Biomass Co-firing is a well proven technology. With increasing environmental awareness, power plants all over the world have adopted Biomass Co-firing as a strategy to combat pollution. UNFCCC recognizes Biomass Co-firing as a carbon neutral technology for mitigation of carbon emission from coal based power plants.

NTPC have successfully demonstrated the Co-firing of 7% blend of Biomass pellets with coal in its Dadri Power Plant. This can be replicated in other coal fired power plants having bowl mills/vertical roller mills/ beater mills.

Ministry of Power vide letter No. 11/86/2017-Th.II dated 17th November, 2017 have forwarded 'Policy for Biomass Utilization for Power Generation through Co-firing in Pulverised Coal Fired Boilers' and has requested to issue the same to all the Power Plants/ Utilities (public or private), State Governments, Power equipment manufacturers and other stake holders. The Policy has been uploaded on CEA website www.cea.nic.in

'In order to promote use of the Biomass pellets, all fluidized bed and pulverized coal units (coal based thermal power plants) except those having ball and tube mill, of power generating utilities, public or private, located in India, shall endeavor to use 5-10% blend of Biomass pellets made, primarily, of agro residue along with coal after assessing the technical feasibility, viz. safety aspects etc.'

Yours faithfully,



(P.C. Kureel)

Secretary, CEA

To

Central Utilities

1. Chairman & Managing Director, NTPC Ltd., NTPC Bhawan, Scope Complex, 7, Institutional Area, Lodhi Road, New Delhi-110003.
2. Chairman, Damodar Valley Corporation, DVC Towers, VIP Road, Kolkata- 700 054
3. Chairman & Managing Director, Neyveli Lignite Corporation Ltd., Corporate Office, Block-I, Neyveli - 607801 , Tamil Nadu

State Utilities

1. Managing Director, Andhra Pradesh Power Generation Corporation Limited, Vidyut Soudh, Hyderabad- 500 049 Andhra Pradesh
2. Managing Director, Assam Power Generation Corporation Ltd. , Bijuli Bhawan, 4th Floor, Palton Bazar, Guwahati 781001 Assam
3. Managing Director, Bihar State Power Generation Company Ltd., 1st Floor, Vidyut Bhawan, Bailey Road, Patna 800 021
4. Managing Director, Chhattisgarh State Power Generation Corporation Ltd., Dagniya, Raipur - 492 013 Chhattisgarh
5. Managing Director, Durgapur Projects Ltd., Dr. B C Roy Avenue, Disrict Burdwan, Durgapur- 713 201 West Bengal
6. Managing Director, Gujarat State Electricity Corporation Ltd., Sardar Patel Vidyut Bhawan, Race Course, Vadodara 390 007 Gujarat
7. Managing Director, Gujarat Urja Vikas Nigam Ltd., Sardar Patel Vidyut Bhawan, Race Course Road, Vadodara- 390 007 Gujarat
8. Managing Director, Haryana Power Generation Corporation Ltd., Room No. 411, 3rd Floor, Urja Bhawan, C-7, Sector-6, Panchkula - 134 112 Haryana
9. Managing Director, Jharkhand Urja Vikas Nigam Limited, Engineering Building HEC, Dhurwa, Ranchi 834 004 Jharkhand.
10. Managing Director, Karnataka Power Corporation Ltd., Shakti Bhawan, 82, Race Course Road, Bangalore- 560 001
11. Managing Director , Maharashtra State Power Generation Corporation Limited, Plot No. G-9, Prakashgad, Bandra (East), MUMBAI-400 051
12. Managing Director, Madhya Pradesh Power Generation Corporation Ltd., Shakti Bhawan, Vidyut Nagar, Rampur P.O. , Jabalpur- 482 008
13. Managing Director, Odisha Power Generation Corporation Ltd., Zone- A, 7th Floor, Fortune Towers, Chandrashekharpur, Bhubaneshwar -751 023 Odisha

14. Chairman & Managing Director, Punjab State Power Corporation Limited, The Mall, Patiala -147 001 Punjab
15. Chairman & Managing Director, Rajasthan Rajya Vidyut Utpadan Nigam Ltd., Vidyut Bhawan, R.C. Dave Marg, Jyoti Nagar, Janpath Jaipur – 302 005 Rajasthan
16. Chairman & Managing Director, Tamil Nadu Generation and Distribution Corporation Limited, 10th Floor, NPKRR Maaligai, 144, Anna Salai, Chennai- 600 002
17. Chairman & Managing Director, Telangana State Power Generation Corporation Limited, Vidyut Soudha, Khairatabad, Hyderabad – 500082
18. Managing Director, U.P. Rajya Vidyut Utpadan Nigam Ltd., 7th Floor, Shakti Bhawan, 14, Ashok Marg, Lucknow – 226 001
19. Chairman & Managing Director, West Bengal Power Development Corporation Ltd., Bidyut Unnayan Bhaban, Block- LA, Plot No. 3/C. Sector- III, Salt Lake City, Kolkata-700 098 West Bengal
19. Managing Director, Indraprastha Power Generation Co. Ltd. , Office of PRO, Himadri, Rajghat Office Complex, New Delhi - 110 001

State Government

1. Chairman & Managing Director, Rural Electrification Corporation, Core- 4, SCOPE Complex, 7, Lodhi Road, New Delhi – 110003.
2. Chairman & Managing Director, Power Finance Corporation Ltd., Urjanidhi, 1, Barakhamba Lane, Connaught Place, NEW DELHI-110 001.
3. Principal Secretary Head (Energy Dept.), Government of Andhra Pradesh Secretariat, Hyderabad- 500 022 Andhra Pradesh
4. Additional Chief Secretary (Power), WPT&BC, Assam Secretariat, (Government of Assam), P.O. Assam Sachivalaya, Block-C, Ground Floor, Dispur - 781 006 Assam
5. Principal Secretary (Energy), Government of Bihar, Irrigation Building, Sinchai Bhawan, 1st Floor, Patna – 800 015 Bihar
6. Principal Secretary (Energy), Government of Chhattisgarh, Room No. 308, DKS Bhawan, Mantralaya, Raipur, Chhattisgarh
7. Chief Secretary (Power), Government of NCT of Delhi, 8th Floor, Players Building, Delhi Secretariat, I.P. Estate, New Delhi – 110 002
8. Principal Secretary (Energy Deptt.), Government of Gujarat, Sachivalaya, Block No. 5, 5th floor, Gandhi Nagar-382 010 Gujarat
9. Financial Commissioner & Principal Secretary (Power), Government of Haryana Room No. 603, 6th floor, New Secretariat Building, Sector-17, Chandigarh – 160 017 Haryana
10. Principal Secretary (Energy) , Government of Jharkhand , Nepal House, Room No. 6, Doranda, Ranchi – 834002 Jharkhand

11. Addl. Chief Secy. & Principal Secy. (Energy), Energy Department, Government of Karnataka, Room No. 236, 2nd floor, Vikasa Soudha, Dr. Ambedkar Road, Bangalore - 560 001 Karnataka
12. Secretary (Energy), Government of Madhya Pradesh, Mantralaya, Bhopal- 462 001 Madhya Pradesh
13. Secretary (Energy), Government of Maharashtra, Industries Energy & Labour Deptt., 4th floor, Mantralaya, Room no. 401, Mumbai- 400 032
14. Commissioner-cum- Secretary, Department of Energy, Government of Odisha, Odisha Secretariat, Bhubaneshwar - 751 001 Orissa
15. Secretary (Power), Government of Punjab, Mini Secretariat, Sector- 9, Chandigarh - 160 009 Punjab
16. Secretary (Power), Chief Secretariat, Goubert Avenue, Puducherry - 605 001
17. Secretary (Energy), Government of Rajasthan, Main Building Secretariat, Janpath, Jaipur- 302 001 Rajasthan
18. Principal Secretary (Energy), Energy Department, Government of Tamil Nadu, Secretariat, Chennai - 600 009 Tamil Nadu
19. Principal Secretary, Energy Department, Government of Telangana, Room No. 328A, 2nd Floor, D- Block, T.S. Secretariat, Hyderabad - 500022 Telangana
20. Principal Secretary (Energy), Government of Uttar Pradesh, Lal Bahadur Shastri Bhawan, Annexe, 5th Floor, Lucknow - 226 004 Uttar Pradesh
21. Principal Secretary (Energy), Department of Power & NCES, Govt. of West Bengal, New Secretariat Building, I.K.S. Roy Road, 7th floor, Block 'A', Kolkata-700 001 West Bengal

Power Equipment Manufacturers

1. Chairman & Managing Director, Bharat Heavy Electrical Ltd., BHEL House, Asiad Village, Siri Fort, New Delhi - 110 049
2. General Manager, L&T MHI Boilers Private Ltd., 12/4 Delhi Mathura Road, Near Sarai Khawaja Chowk, Faridabad - 121003 Haryana
3. General Manager, L&T - MHI Turbine & Generators Pvt. Ltd., 1st Floor, Pankaj Building, Chhani Road, Vadodara - 390 024 Gujarat
4. CEO, Alstom Bharat Forge Power Limited, IHDP Building, Plot # 7, Sector- 127, NOIDA - 201301 Uttar Pradesh
5. Managing Director, Toshiba JSW Power Systems Private Limited, S. No. 74-95, Vaikkadu Village, Andarkuppam Check Post, Manali New Town, Chennai - 600103 Tamil Nadu

6. Vice President, Thermax Babcock & Wilcox Energy Solutions Private Limited, Energy House, D-2 Block, Plot No. 38 & 39, MIDC Area, R.D. Aga Road, Chinchawad, Pune – 411019
7. Managing Director, Doosan Power Systems India Pvt. Ltd., 18/2A, Sennerkuppam Bypass, Poonamallee, Chennai – 600056

IPPs / Generating Companies

1. Vice President, M/s Adani Power Limited, 8 A, Sambhav Building, Judges Bungalow Road, Bodakdev, Ahmedabad – 380 015 (Gujarat)
2. M/s Athena Chhattisgarh Power Pvt. Ltd., 7-1-24, B- Block, 5th Floor, B Block, Roxana Towers, Green Lands, Begumpet, Hyderabad- 500 016 Andhra Pradesh
3. M/s Atlas Power India Pvt. Limited, A-2, II Floor, Regency Splendour Apartments No. 25, Hall Road, Richards Town, Bangalore-560005
4. M/s Amaravati Thermal Power Private Limited, 6-3-1090, TSR Towers, Rajbhavan Road, Somajiguda, Hyderabad- 500082
5. M/s Astaranga Power Company Limited, 1259, Lakshmi Towers, Road No 36, Jubilee Hills, Hyderabad- 500033
6. Aban Power Company Ltd., 3rd Floor, 25 GN Chetty Road, T Nagar, Chennai – 600 017
7. Adhunik Power & Natural Resources Ltd., 208-209, 2nd Floor, Padma Tower-II, 22 Rajendra Place, New Delhi – 110 008
8. Alfa Infraprop Private Limited, 3rd Floor, Rider House, 136, Sector – 44, Gurgaon – 122 002
9. AES (India) Private Limited, 9th Floor, Tower – B, DLF Building No. 10, Cyber City, Phase – II, Gurgaon – 122 002 Haryana
10. BPL Power Projects (AP) Pvt. Limited, H. No. 8-2-293/82/NG/03, Plot No. 3, Road No. 69, Nandagiri Hills, Jubilee Hills, Hyderabad – 500 033
11. BGR Energy Systems Ltd., 443, Anna Salai Teynampet, Chennai – 600 018
12. Coastal Energen Pvt. Ltd., 7th Floor, Buhari Towers, 4, Moores Road, Chennai -600 006
13. M/S Corporate Power Ltd., Insignia Tower, EN1, Sector-V, Salt Lake, 3rd Floor, Kolkatta 700 091
14. CESC Limited, CESC House, Chowringhee Square, Kolkata- 700 001
15. CLP Power India Private Limited, 15th Floor, Oberoi Commerz, International Business Park, Oberoi Garden City, Goregaon (E), Mumbai – 400 063
16. Coastal Gujarat Power Limited (A Tata Power Company), Tunda Vandh Road, Tunda Village, Mundra, Kutch – 370 421
17. DHARIWAL Infrastructure (P) Ltd., CF-366, Salt lake City, Sector-1, Kolkata – 700064

18. Himanshu Jhavar, Sr. Vice President, D.B. Power Ltd., G-3A / 4-6, Kamanwala Chambers, New Udyog Mandir – 2, Mogul Lane, Mahim (W), Mumbai- 400 016
19. M/s East Coast Energy Pvt. Limited, 7-1-24, B Block, 5th Floor Roxena Towers, Greenland, Begumpet, Hyderabad 550 016 Andhra Pradesh
20. Essar Power Limited, Essar House, Prakash Deep, 10th Floor, 7 Tolstoy Marg, New Delhi – 110 001
21. Executive Vice President (Power Projects), GMR Energy Limited, IBC Knowledge Park, Phase 2, D- Block, 9th Floor, 4/1, Bannerghatta Road, Bangalore- 560 029
22. GVK Power & Infrastructure Limited, Paigah House, 156-159, Sardar Patel Road, Secundrabad – 500 003 Andhra Pradesh
23. M/s India Bulls Realtech Limited, “Indiabulls House”, 448-451, Udyog Vihar, Phase-V, Gurgaon-122001
24. M/s Ind-Barath Power (Utkal) Limited, Plot No 30-A, Road No 1, Film Nagar, Jubilee Hills, Hyderabad- 500 033
25. M/s. Ideal Energy Projects Ltd., 122, Telecom nagar, Pratap Nagar, Nagpur – 410022.
26. Director, Jindal Power Limited, Jindal Centre, 12, Bhikaji Cama Place, New Delhi- 110066
27. M/s Jindal India Thermal Power Limited, Plot No 12, Local Shopping Complex, Sector B-1, Vasant Kunj, New Delhi- 110 070
28. Sr. Vice President, M/s JSW Energy Limited, Jindal Mansion, 5A, Dr. G. Deshmukh Marg, Mumbai- 400026
29. M/S Jhabua power Ltd., 6th-7th Floor, Vatika Point, M.G.Road Phase II, Opposite First India Palace, Sector- 53, Gurgaon – 122 002
30. Avantha Power & Infrastructure Limited, 6th & 7th Floor, Vatika City Point, M.G. Road, Gurgaon – 122002
31. M/s Krishnapatnam Power Corporation Limited, Plot No 322, Road No 25, Jubilee Hill, Hyderabad-500033
32. M/s KVK Energy & Infrastructure (P) Limited, 6-3-1109/A/1, 3rd Floor, Navabharath Chambers, Somajiguda, Raj Bhavan Road, Hyderabad-500082
33. M/s Kineta Power Private Limited, Uma Enclave, 5th Floor, Road No. 9, Banjara Hills, Hyderabad-500 034
34. Head of SBU & CEO, Lanco Infratech Limited, Plot No 397, Udyog Vihar, Phase-III, Gurgaon-122 016 Haryana
35. Vice President (Technical), Lanco Anpara Power Limited, Plot No 397, Udyog Vihar, Phase-III, Gurgaon-122 016 Haryana

36. General Manager, Fuel Sourcing Group (E&C Power), Larsen & Toubro Limited, G-4, 2nd Floor, Gate No.1, Powai Campus, Saki-Vihar Road, Mumbai- 400072
37. M/S Lanco Amarkantak power Ltd., Plot No. 397, Phase-III, Udyog Vihar, Gurgaon-122016, Haryana
38. M/s Maithon Power Limited, (JV of Tata Power & DVC), C- 43, Sector-62, Noida 201 307 (UP)
39. M/s Moser Baer Power & Infrastructure Limited, 43 B, Okhala Industrial Estate, New Delhi- 110020
40. Meenakshi Energy Private Limited, Meekashi House, 8-2-418, Road No. 7, Banjara Hills, Hyderabad – 500 034
41. M/s NSL Power Limited, NSL ICON, Door No. 8-2-684/2/A, Plot Nos. 1to 4, 4th Floor Road No. 12, Banjara Hills, Hyderabad-500034
42. M/s Reliable Thermal Power limited, C-101, Ground Floor, East of Kailash, New Delhi-110065
43. Shri J. P. Chalsani, Chief Executive Director, Reliance Power Limited, Reliance Energy Centre, Shanta Cruz East, Mumbai-400 055
44. R.K.M. POWERGEN PVT LTD, 2nd & 3rd Floor, 14 Dr. Giri Appa Road, T. Nagar, Chennai-600017
45. M/s Sahara India Power Corporation Limited, Sahara India Centre, 5th Floor, 2, Kapoorthala Complex, Aliganj, Lucknow-226024
46. M/s Sheshadri Power & Infrastructure (P) Ltd., Surya Towers, 6th Floor, 105, Sardar Patel Road, Secundrabad-500003
47. M/s SJK Powergen Limited, 501, Waves Apartments, 4th Floor, Opp. R.K. Beach, Adjacent to SAIL Office, Visakhapatnam- 530 003
48. M/s SKS Ispat and Power Limited, 501 B, Elegant Business Park, Andheri Kurla Road, J.B. Nagar, Andheri (E), Mumbai-400 059
49. M/s SLS Energy Private Limited, 1445, “Vajras”, 1st Floor, 28th Main, Southend ‘A’ Cross Jayanagar, 9th Block (East), Bangalore-560069
50. M/s Sophia Power Company Ltd., Indiabulls House, 448-451, Udyog Vihar, Phase-V, Gurgaon-122001
51. Chief Operating Officer, Spectrum Power Generation Limited, Plot No 231, 8-2-293/82/A/231, 3rd Floor, Road No. 36, Jubilee Hills, Hyderabad-500 033
52. M/s SRM Energy Private Limited, 43, Free Press House, 215, Nariman Point, Mumbai-400021
53. M/s Sterlite Energy Pvt. Ltd., 1st Floor, City Mart Commercial Complex, Baramundra, Bhubaneswar-751003

54. M/s. Simhapuri Energy pvt. Ltd., Madhucon, Greenland, 6-3-866/2, 3rd Floor, Begumpet, Hyderabad-500016
55. Managing Director, Tata Power Company Limited, 24, Homi Mody Street, Mumbai-400 001
56. Shri K. Chandrashekhar, Director (Projects), Tata Power Company Limited, Dharavi Receiving Station, Matunga, Mumbai-400 019
57. M/s Torrent Power Limited, Torrent House, Off Ashram Road, Ahemdabad-380009
58. DGEN Mega Power Project, Torrent Energy Limited, Plot No. Z-9, Dahej SEZ Area (Eastern Side), Taluka Vagra, Distt. Bharuch – 392130 Gujarat
59. M/s VIDEOCON Industries Limited, VIDEOCON Towers, 12th Floor, E-1, Jhandewalan Extn., New Delhi-110055
60. VANDANA VIDYUT Ltd., Vandana Bhawan, MG Road, Raipur – 492 001, Chhattisgarh
61. Wardha Power Company Private Limited, Sony Apartment, 2nd Floor, 19, REbella Road, Bandra West, Mumbai – 400 050
62. CEO, Jinbhuvish Power Generation Pvt. Limited, 155- A, Mittal Tower, Nariman Point, Mumbai- 400 021
63. Managing Director, Godawari Power and Ispat Ltd., Plot No. 428/2, Phase I, Industrial Area, Distt. Raipur, Siltara – 493111 Chhattisgarh
64. Managing Director, Godawari Power and Ispat Ltd., Hira Arcade, 1st Floor, New Bus Stand, Pandri, Raipur – 492001 Chhattisgarh

F. No. A-110014/10/2020/CAQM-SB-Vol.II -573
Commission for Air Quality Management in
NCR and Adjoining Areas

Indian Oil Bhavan, 1, Sri Aurobindo Marg,
Yusuf Sarai, New Delhi 110016

Dated: 28th July, 2021

Advisory No: 5 of 2021

To

The Chief Secretary,
Government of Punjab,
6th Floor, Punjab Civil Secretariat -1, Sector -1,
Chandigarh – 160001.

ADVISORY FROM THE COMMISSION

Subject: Ex-situ stubble management for tackling the problem of stubble burning: reg.

1. Whereas, the Commission in various meetings held with the representatives of State Governments of Punjab, Haryana, Uttar Pradesh, Rajasthan, Government of NCT of Delhi and other stakeholders/knowledge institutions like Indian Council of Agricultural Research(ICAR), Indian Agriculture Research Institute (IARI), Indian Space Research Organization (ISRO), NGOs, and civil society groups etc. working in the National Capital Region (NCR) has observed that Paddy stubble burning has been a matter of grave concern in view of its adverse impact on air quality in NCR ;
2. Whereas, the Commission has provided an effective framework and steps to be taken to tackle the problem of stubble burning to the State Governments of Punjab, Haryana, Uttar Pradesh, Rajasthan and GNCTD, and issued Directions dated 10th June, 2021 to prepare a

detailed/comprehensive plan of action, based on the contours contained in the frame-work provided to tackle the problem of stubble burning;

3. Whereas, ***Ex-situ Crop Residue management (CRM)*** is one of the vital strategies of the framework to tackle the problem of stubble burning;
4. Whereas, a meeting dated 13th July, 2021 on the subject of *Ex-situ* stubble management was chaired by Chairperson of Commission and attended by the representatives of the State Governments of Punjab, Haryana and Uttar Pradesh, Ministries of Power, Agriculture and Farmers Welfare, New and Renewable Energy, Government of India and National Thermal Power Corporation (NTPC) and the meeting *inter alia* discussed utilization of stubble in Coal based Thermal Power Plants;
5. Whereas, the major alternate usage of paddy straw as fuel is in thermal power plants, waste to energy plants, brick kilns etc. and also as end products as pellets/ briquettes, bio-fuels (bio-ethanol, compressed bio-gas), particle board, compressed agri-panel, panel furniture, packaging material etc. was highlighted in the meeting;
6. Whereas, the Commission had emphasised and reiterated that the major challenge, in making the *ex-situ* options workable is to ensure a continuous and assured availability of paddy straw to the various end users and to develop a sound policy framework for robust supply chain mechanism covering both the supply side and demand side requirements;
7. Whereas, the NTPC a potential major end user of the paddy straw in Thermal Power Plants in the form of pellets/ torrefied pellets, *inter-alia* highlighted that :
 - i) It is technically feasible and implementable to co-fire bio-mass pellets with coal in proportion upto 5-10% in Thermal Power Plants ;

- ii) There is no technical constraints in utilising paddy straw pellets for co-firing in super critical plants and such co-firing is already being done in super-critical boilers in three NTPC plants ;
 - iii) NTPC is expanding the use bio-pellets in thermal power plants and actions have been initiated for the use bio-mass pellets in 17 plants to utilise about 5 million ton of bio-mass per annum;
 - iv) To promote supply of paddy straw/ bio-mass pellets to the thermal power plants by private entrepreneurs and vendors, State Governments should take necessary steps to create an ecosystem for this purpose ;
 - v) NTPC is committed to utilise paddy straw pellets which are made available to them at the gate of the plants;
 - vi) Since many thermal power plants in the states of Punjab and Haryana are operated by State Government agencies, they may also use biomass pellets in such power plants and considering the proximity, the transportation and logistics costs would be competitive.
8. Whereas, Ministry of Power, Government of India has launched a National Biomass Mission for utilization of biomass with representatives from CEA, NTPC, DVC and NLC, where NTPC will provide the logistic and infrastructural support for the Mission;
9. Whereas, the Commission was apprised that Ministry of New and Renewable Resources, Government of India have provisions for providing subsidies for various bio-fuel projects and soft loans for supporting biomass supply chains ;
10. Whereas, there is a compelling necessity to promote *ex-situ* crop residue management and create a policy framework and eco-system for the purpose;

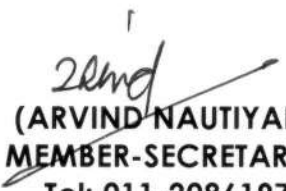
11. And therefore the State Government of Punjab is advised to take steps and initiatives in this regard and such steps *inter-alia* may include :-

- (i) Developing and Piloting small scale, affordable equipment (cutters, rakers, balers) that can be used in a versatile manner and across seasons through shared economy models;
- (ii) Enabling entrepreneurs to procure and share residue management equipments in greater numbers;
- (iii) Developing low cost, long-term paddy straw storage facilities by creating a convergence of subsidies, loan guarantees, lowering collateral etc.;
- (iv) Demonstrating price discovery model of paddy residue for farmers, by connecting a variety of end-users across the paddy straw value chain with entrepreneurs / FPO;
- (v) Demonstrating the profitability of paddy straw residue end use;
- (vi) Deploying and scaling decentralized innovations, which deliver higher value for paddy straw through multiple sustainable high-value end products.

12. And further the State Government of Punjab is advised to take note that paddy straw based biomass pellets and torrefied charcoal can be successfully used in thermal power plants for co-firing upto a blend ratio of 10 %, without any boiler design modifications and therefore initiate the following steps for utilisation of paddy straw in thermal power plants :-

- (i) To formulate a policy framework for ensuring assured and continuous supply of raw materials to *ex-situ* plants utilizing paddy crop residue.
- (ii) To use paddy straw pellets as fuel for co-firing in thermal power plants operated by State Governments in NCR since huge quantities of straw are available proximate to thermal power plants.
- (iii) *To* Promote and facilitate setting up of paddy straw pelletising units / torrefying units at strategic geographical locations in the state to optimize on the supply chain logistics.
- (iv) To have detailed deliberations with NTPC for assistance in using paddy straw in thermal power plants operated by NTPC as well as TPPs operated by the respective States. Such a possibility may also be explored for the private power plants.
- (v) To tap the expertise of the National Biomass Mission and NTPC by State Government of Punjab for required assistance in this regard.
- (vi) To take benefit and required assistance under different schemes for *ex-situ* projects including providing subsidies and soft loans from Ministry of New and Renewable Resources, Government of India.

The Action Taken Report on the above advisory be apprised to the Commission.


(ARVIND NAUTIYAL)
MEMBER-SECRETARY
Tel: 011-20861974
Email: arvind.nautiyal@gov.in

F. No. A-110014/10/2020/CAQM-SB-Vol.II - 574
Commission for Air Quality Management in
NCR and Adjoining Areas

Indian Oil Bhavan, 1, Sri Aurobindo Marg,
Yusuf Sarai, New Delhi 110016

Dated: 28th July, 2021

Advisory No: 6 of 2021

To

The Chief Secretary,
Government of Haryana,
4th Floor, Haryana Civil Secretariat,
Sector-1, Chandigarh -160019

ADVISORY FROM THE COMMISSION

Subject: Ex-situ stubble management for tackling the problem of stubble burning: reg.

1. Whereas, the Commission in various meetings held with the representatives of State Governments of Punjab, Haryana, Uttar Pradesh, Rajasthan, Government of NCT of Delhi and other stakeholders/knowledge institutions like Indian Council of Agricultural Research(ICAR), Indian Agriculture Research Institute (IARI), Indian Space Research Organization (ISRO), NGOs, and civil society groups etc. working in the National Capital Region (NCR) has observed that Paddy stubble burning has been a matter of grave concern in view of its adverse impact on air quality in NCR ;
2. Whereas, the Commission has provided an effective framework and steps to be taken to tackle the problem of stubble burning to the State Governments of Punjab, Haryana, Uttar Pradesh, Rajasthan and GNCTD, and issued Directions dated 10th June, 2021 to prepare a

detailed/comprehensive plan of action, based on the contours contained in the frame-work provided to tackle the problem of stubble burning;

3. Whereas, ***Ex-situ Crop Residue management (CRM)*** is one of the vital strategies of the framework to tackle the problem of stubble burning;
4. Whereas, a meeting dated 13th July, 2021 on the subject of *Ex-situ* stubble management was chaired by Chairperson of Commission and attended by the representatives of the State Governments of Punjab, Haryana and Uttar Pradesh, Ministries of Power, Agriculture and Farmers Welfare, New and Renewable Energy, Government of India and National Thermal Power Corporation (NTPC) and the meeting *inter alia* discussed utilization of stubble in Coal based Thermal Power Plants;
5. Whereas, the major alternate usage of paddy straw as fuel is in thermal power plants, waste to energy plants, brick kilns etc. and also as end products as pellets/ briquettes, bio-fuels (bio-ethanol, compressed bio-gas), particle board, compressed agri-panel, panel furniture, packaging material etc. was highlighted in the meeting;
6. Whereas, the Commission had emphasised and reiterated that the major challenge, in making the *ex-situ* options workable is to ensure a continuous and assured availability of paddy straw to the various end users and to develop a sound policy framework for robust supply chain mechanism covering both the supply side and demand side requirements;
7. Whereas, NTPC a potential major end user of the paddy straw in Thermal Power Plants in the form of pellets/ torrefied pellets, *inter-alia* highlighted that :

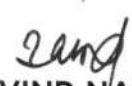
- i) It is technically feasible and implementable to co-fire bio-mass pellets with coal in proportion upto 5-10% in Thermal Power Plants ;
 - ii) There is no technical constraints in utilising paddy straw pellets for co-firing in super critical plants and such co-firing is already being done in super-critical boilers in three NTPC plants ;
 - iii) NTPC is expanding the use bio-pellets in thermal power plants and actions have been initiated for the use bio-mass pellets in 17 plants to utilise about 5 million tonnes of bio-mass per annum;
 - iv) To promote supply of paddy straw/ bio-mass pellets to the thermal power plants by private entrepreneurs and vendors, State Governments should take necessary steps to create an ecosystem for this purpose ;
 - v) NTPC is committed to utilise paddy straw pellets which are made available to them at the gate of the plants;
 - vi) Since many thermal power plants in the states of Punjab and Haryana are operated by State Government agencies, they may also use biomass pellets in such power plants and considering the proximity, the transportation and logistics costs would be competitive.
8. Whereas, Ministry of Power, Government of India has launched a National Biomass Mission for utilization of biomass with representatives from CEA, NTPC, DVC and NLC, where NTPC will provide the logistic and infrastructural support for the Mission;
9. Whereas, the Commission was apprised that Ministry of New and Renewable Resources, Government of India have provisions for providing subsidies for various bio-fuel projects and soft loans for supporting biomass supply chains ;

10. Whereas, there is a compelling necessity to promote *ex-situ* crop residue management and create a policy framework and eco-system for the purpose;
11. And therefore the State Government of Haryana is advised to take steps and initiatives in this regard and such steps *inter-alia* may include :-
- (i) Developing and Piloting small scale, affordable equipment (cutters, rakers, balers) that can be used in a versatile manner and across seasons through shared economy models;
 - (ii) Enabling entrepreneurs to procure and share residue management equipments in greater numbers;
 - (iii) Developing low cost, long-term paddy straw storage facilities by creating a convergence of subsidies, loan guarantees, lowering collateral etc.;
 - (iv) Demonstrating price discovery model of paddy residue for farmers, by connecting a variety of end-users across the paddy straw value chain with entrepreneurs / FPO;
 - (v) Demonstrating the profitability of paddy straw residue end use;
 - (vi) Deploying and scaling decentralized innovations, which deliver higher value for paddy straw through multiple sustainable high-value end products.
12. And further the State Government of Haryana is advised to take note that paddy straw based biomass pellets and torrefied charcoal can be successfully used in thermal power plants for co-firing upto a blend ratio of

10 %, without any boiler design modifications and therefore initiate the following steps for utilisation of paddy straw in thermal power plants :-

- (i) To formulate a policy framework for ensuring assured and continuous supply of raw materials to *ex-situ* plants utilizing paddy crop residue.
- (ii) To use paddy straw pellets as fuel for co-firing in thermal power plants operated by State Governments in NCR, since huge quantities of straw are available proximate to thermal power plants.
- (iii) To promote and facilitate setting up of paddy straw pelletising units / torrefying units at strategic geographical locations in the state to optimize on the supply chain logistics.
- (iv) To have detailed deliberations with NTPC for assistance in using paddy straw in thermal power plants operated by NTPC as well as TPPs operated by the States. Such a possibility may also be explored for the private power plants.
- (v) To tap the expertise of the National Biomass Mission and NTPC by State Government of Haryana for required assistance in this regard.
- (vi) To take benefit and required assistance under different schemes for *ex-situ* projects including providing subsidies and soft loans from Ministry of New and Renewable Resources, Government of India.

The Action Taken Report on the above advisory be apprised to the Commission.

1

(ARVIND NAUTIYAL)
MEMBER-SECRETARY
Tel: 011-20861974
Email: arvind.nautiyal@gov.in

F. No. A-110014/10/2020/CAQM-SB-Vol.II -575-
Commission for Air Quality Management in
NCR and Adjoining Areas

Indian Oil Bhavan, 1, Sri Aurobindo Marg,
Yusuf Sarai, New Delhi 110016

Dated: 28th July, 2021

Advisory No: 7 of 2021

To

The Chief Secretary,
Government of Uttar Pradesh,
1st Floor, Room No. 110,
Lalbahadur Sastri Bhawan,
Uttar Pradesh Secretariat,
Lucknow-226001

ADVISORY FROM THE COMMISSION

Subject: Ex-situ stubble management for tackling the problem of stubble burning: reg.

1. Whereas, the Commission in various meetings held with the representatives of State Governments of Punjab, Haryana, Uttar Pradesh, Rajasthan, Government of NCT of Delhi and other stakeholders/knowledge institutions like Indian Council of Agricultural Research(ICAR), Indian Agriculture Research Institute (IARI), Indian Space Research Organization (ISRO), NGOs, and civil society groups etc. working in the National Capital Region (NCR) has observed that Paddy stubble burning has been a matter of grave concern in view of its adverse impact on air quality in NCR
2. Whereas, the Commission has provided an effective framework and steps to be taken to tackle the problem of stubble burning to the State Governments of Punjab, Haryana, Uttar Pradesh, Rajasthan and GNCTD, and issued Directions dated 10th June, 2021 to prepare a

detailed/comprehensive plan of action, based on the contours contained in the frame-work provided to tackle the problem of stubble burning;

3. Whereas, ***Ex-situ Crop Residue management (CRM)*** is one of the vital strategies of the framework to tackle the problem of stubble burning;
4. Whereas, a meeting dated 13th July, 2021 on the subject of *Ex-situ* stubble management was chaired by Chairperson of Commission and attended by the representatives of the State Governments of Punjab, Haryana and Uttar Pradesh, Ministries of Power, Agriculture and Farmers Welfare, New and Renewable Energy, Government of India and National Thermal Power Corporation (NTPC) and the meeting *inter alia* discussed utilization of stubble in Coal based Thermal Power Plants;
5. Whereas, the major alternate usage of paddy straw as fuel is in thermal power plants, waste to energy plants, brick kilns etc. and also as end products as pellets/ briquettes, bio-fuels (bio-ethanol, compressed bio-gas), particle board, compressed agri-panel, panel furniture, packaging material etc. was highlighted in the meeting;
6. Whereas, the Commission had emphasised and reiterated that the major challenge, in making the *ex-situ* options workable is to ensure a continuous and assured availability of paddy straw to the various end users and to develop a sound policy framework for robust supply chain mechanism covering both the supply side and demand side requirements;
7. Whereas, NTPC a potential major end user of the paddy straw in Thermal Power Plants in the form of pellets/ torrefied pellets, *inter-alia* highlighted that :

- i) It is technically feasible and implementable to co-fire bio-mass pellets with coal in proportion upto 5-10% in Thermal Power Plants ;
 - ii) There is no technical constraints in utilising paddy straw pellets for co-firing in super critical plants and such co-firing is already being done in super-critical boilers in three NTPC plants ;
 - iii) NTPC is expanding the use bio-pellets in thermal power plants and actions have been initiated for the use bio-mass pellets in 17 plants to utilise about 5 million tonnes of bio-mass per annum;
 - iv) To promote supply of paddy straw/ bio-mass pellets to the thermal power plants by private entrepreneurs and vendors, State Governments should take necessary steps to create an ecosystem for this purpose ;
 - v) NTPC is committed to utilise paddy straw pellets which are made available to them at the gate of the plants;
8. Whereas, Ministry of Power, Government of India has launched a National Biomass Mission for utilization of biomass with representatives from CEA, NTPC, DVC and NLC, where NTPC will provide the logistic and infrastructural support for the Mission;
9. Whereas, the Commission was apprised that Ministry of New and Renewable Resources, Government of India have provisions for providing subsidies for various bio-fuel projects and soft loans for supporting biomass supply chains ;
10. Whereas, there is a compelling necessity to promote *ex-situ* crop residue management and create a policy framework and eco-system for the purpose;
11. And therefore the State Government of Uttar Pradesh is advised to take steps and initiatives in this regard and such steps *inter-alia* may include :-

- (i) Developing and Piloting small scale, affordable equipment (cutters, rakers, balers) that can be used in a versatile manner and across seasons through shared economy models;
- (ii) Enabling entrepreneurs to procure and share residue management equipments in greater numbers;
- (iii) Developing low cost, long-term paddy straw storage facilities by creating a convergence of subsidies, loan guarantees, lowering collateral etc.;
- (iv) Demonstrating price discovery model of paddy residue for farmers, by connecting a variety of end-users across the paddy straw value chain with entrepreneurs / FPO;
- (v) Demonstrating the profitability of paddy straw residue end use;
- (vi) Deploying and scaling decentralized innovations, which deliver higher value for paddy straw through multiple sustainable high-value end products.

12. And further the State Government of Uttar Pradesh is advised to take note that paddy straw based biomass pellets and torrefied charcoal can be successfully used in thermal power plants for co-firing upto a blend ratio of 10 %, without any boiler design modifications and therefore initiate the following steps for utilisation of paddy straw in thermal power plants :-

- (i) To formulate a policy framework for ensuring assured and continuous supply of raw materials to *ex-situ* plants utilizing paddy crop residue.

- (ii) To use paddy straw pellets as fuel for co-firing in thermal power plants operated by State Governments in NCR, since huge quantities of straw are available proximate to thermal power plants.
- (iii) To promote and facilitate setting up of paddy straw pelletising units / torrefying units at strategic geographical locations in the state to optimize on the supply chain logistics.
- (iv) To have detailed deliberations with NTPC for assistance in using paddy straw in thermal power plants operated by NTPC as well as TPPs operated by the States. Such a possibility may also be explored for the private power plants.
- (v) To tap the expertise of the National Biomass Mission and NTPC by State Government of Uttar Pradesh for required assistance in this regard.
- (vi) To take benefit and required assistance under different schemes for *ex-situ* projects including providing subsidies and soft loans from Ministry of New and Renewable Resources, Government of India.

The Action Taken Report on the above advisory be apprised to the Commission.


(ARVIND NAUTIYAL)
MEMBER-SECRETARY
Tel: 011-20861974
Email: arvind.nautiyal@gov.in

**COMMISSION FOR AIR QUALITY MANAGEMENT
IN NATIONAL CAPITAL REGION AND ADJOINING AREAS**

17th Floor, Jawahar Vyapar Bhawan (STC Building)
Tolstoy Marg, New Delhi-110001

F.No.-120015/25/TPP/2021/CAQM- /948-955

Dated: 17.09.2021

Subject: Ex-Situ Paddy Straw Management through utilization in Coal Based Thermal Power Plants.

1. WHEREAS, Ministry of Environment, Forest and Climate Change, Government of India, in exercise of the powers conferred under Section 3 of the Commission for Air Quality Management in National Capital Region and Adjoining Areas Act 2021, has constituted the Commission for Air Quality Management in National Capital Region and Adjoining Areas (hereinafter referred to as the Commission);
2. WHEREAS, Section 30 of the Act, 2021 provides that anything done or any action taken under the erstwhile Ordinance 2020 shall be deemed to have been done or taken under the corresponding provisions of the Ordinance 2021;
3. WHEREAS, under Section 12 (1) of the Act, the Commission has powers to take all such measures, issue directions, etc., as it deems necessary or expedient for the purpose of protecting and improving the quality of the air in the National Capital Region and Adjoining Areas;
4. WHEREAS, Section 12 (2) (xi) of the Act, empowers the Commission to issue directions in writing to any person, officer, or any authority and such person, officer or authority shall be bound to comply with such directions;

5. WHEREAS, the Commission has observed that Paddy stubble burning is a matter of grave concern for air quality in NCR and Ex-situ utilization of paddy straw is an important strategy to solve the problem, especially in the Coal based Thermal Power Plants, being one of the potential users;
6. WHEREAS, the Commission had taken up the matter regarding ex-situ stubble management with NCR States in the past and State Governments were impressed upon the urgency and criticality of ensuring supply chain of biomass for making the ex-situ options viable and successful;
7. WHEREAS, the Commission has issued advisory on 28.07.2021 to the State Governments of Punjab, Haryana and Uttar Pradesh regarding ex-situ stubble management for tackling the problem of Stubble burning.
8. WHEREAS, the matter of utilization of biomass pellets for co-firing in thermal power plants was discussed in the meetings held in the Commission on 09.12.2020, 13.07.2021 and also 5th Meeting of the Commission held on 19th August, 2021 and 24th August, 2021;
9. WHEREAS, NTPC, based on the trials and experimentation has confirmed that it is technically feasible and implementable to co-fire bio-mass pellets with coal in proportion upto 5-10% in Thermal Power Plants without any modifications in the boilers;
10. WHEREAS, NTPC has already started co-firing bio-mass pellets in its power plants and based on the success of the trials, is promoting the use of bio-pellets in its thermal power plants across the country;
11. WHEREAS, the Commission has advised State Governments of Punjab, Haryana and Uttar Pradesh in the 5th Meeting of the Commission dated 19th August, 2021 and 24th August, 2021, to use paddy straw towards

co-firing as fuel in their respective state owned thermal power plants, NTPC power plants in the region and also make efforts to "on-board" private thermal power plant operators for this initiative;

12. WHEREAS, the matter was further deliberated in the meeting chaired by the Hon'ble Minister, EF&CC on 03.09.2021, in which the representatives from Thermal power plants in NCR and adjoining areas also participated, Wherein the need to use straw based biomass pellets in thermal power plants was reiterated;
13. WHEREAS, the matter was further deliberated in the meeting held in the Commission on 09.09.2021, in which the representatives of all the Thermal power plants in NCR and adjoining areas participated, wherein the need to co-fire paddy straw based pellets with coal was reiterated;
14. NOW THEREFORE, in view of the above position and the compelling need to control air pollution from burning of paddy straw and its effective utilization as a resource, the Commission constituted under the provisions of "Commission for Air Quality Management in National Capital Region and Adjoining Areas, Act, 2021", hereby directs the Coal based Thermal Power plants situated upto a radius of 300 Km of Delhi:
 - I. To initiate immediate steps to co-fire biomass based Pellets, Torrefied Pellets/Briquettes (with focus on paddy straw) with Coal (up to 5-10%) in the power plants through a continuous and uninterrupted supply chain and
 - II. To take all necessary steps to ensure that co-firing of biomass pellets in Thermal Power Plants begins without any delay.

Direction No. 42

15. First Action taken report in compliance of the above direction be submitted to the Commission by 25.09.2021 and reports thereafter may be sent on a monthly basis.

(Arvind Nautiyal)
 Member Secretary
 Tel No.: 011-23701197
 Email: arvind.nautiyal@gov.in

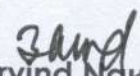
To:

1. Chairman and Managing Director, NTPC
2. MDs of Power Plants in NCR and adjoining areas:
 - I. Mahatma Gandhi TPS, CLP Jhajjar, Haryana
 - II. Panipat TPS, HPGCL, Haryana
 - III. Rajiv Gandhi TPS, Hisar, HPGCL, Haryana
 - IV. Deenbandhu Chhoturam TPS, Yamunanagar, HPGCL, Haryana
 - V. Guru Hargobind TPS, PSPCL, Punjab
 - VI. Nabha Power Ltd, Rajpura TPS, Punjab
 - VII. Talwandi Sabo TPS, Mansa, TSPL, Punjab
 - VIII. Guru Gobind Singh TPS, PSPCL, Punjab
 - IX. Harduaganj TPS, UPRVUNL, Uttar Pradesh

Copy forwarded to:

1. The Chief Secretary, Government of Punjab, 6th Floor, Punjab Civil Secretariat-1, Sector-1, Chandigarh -160 001
2. The Chief Secretary, Government of Haryana, 4th Floor, Civil Secretariat, Sector – 1, Chandigarh.
3. The Chief Secretary, Government of Uttar Pradesh, 101, Lok Bhawan, U. P. Civil Secretariat, Vidhan Sabha Marg, Lucknow – 226001.
4. Additional Secretary, Ministry of Power, Government of India.
5. Additional Chief Secretary, Power, Government of Punjab.

6. Additional Chief Secretary, Power and New and Renewable Energy,
Government of Haryana.
7. Additional Chief Secretary, Department of Additional Sources of Energy,
Government of Uttar Pradesh.
8. Member Secretary, Central Pollution Control Board


(Arvind Naufiyal)

Minutes of the Meeting held under the Co-Chairmanship of Hon'ble Minister of Power & NRE and Hon'ble Minister of Environment, Forest & Climate Change and Labour & Employment on the issues related to co-firing of biomass pellets in Thermal Power Plants (TPPs) on 03.10.2022 at 11:30 AM

List of participants is given at **Annexure-I**.

2. At the outset, Secretary (Power) welcomed Hon'ble Minister of Power & NRE, Hon'ble Minister of Environment, Forest & Climate Change and Labour & Employment and all the participants. He apprised about the urgency to address the issue of air pollution due to farm stubble burning in the National Capital Region (NCR). He further highlighted the importance of the initiatives taken by the Ministry of Power (MoP) under the SAMARTH Mission to reduce the carbon footprint of Thermal Power Plants (TPPs) and to contribute to efforts to mitigate the air pollution issue from the Parali burning.

3. With the permission of Chair, Mission Director (SAMARTH Mission) made a presentation on the issue of co-firing of biomass pellets in the Thermal Power Plants in the NCR.

4. Mission Director (SAMARTH Mission) presented a detailed status of utilization of biomass in respect of 11 TPPs, status of tendering, Purchase Order (PO) Awarded, Under Award and Under Tendering Process. It was informed that NTPC has already placed PO of around 26 LMT of biomass pellets for their NCR plants. However, other than NTPC plants, the tendering for procurement of Biomass pellets for other plants is still under process.

4.1 In this regard, Hon'ble Minister of Power & NRE observed that the target of 5% co-firing of biomass along with coal in TPPs in the country is compulsory and non compliance will involve penalties. Most power plants have initiated long term tenders and the situation is expected to improve in future. He further pointed out the tendering efforts made by the TPPs located in Haryana and Punjab (other than NTPC) is inadequate.

5. Hon'ble Minister of Power & NRE asked representative of Government of Punjab (GoP) & Government of Haryana (GoH) to share the reasons for delay in awarding the tenders by GENCOs. He directed that the states should fix the responsibility for the non-compliance of biomass co-firing policy and various directions of CAQM. The State Governments were advised to ensure timely implementation of biomass utilization without any further delay.

5.1 CMD, PSPCL informed that the coal consumption for the PSPCL plants was around 25 Lakh Tonnes for the year 2021-22 and accordingly they

floated a tender for around 1.6 Lakh tonnes of coal in April 2022. It was further informed that PSPCL plants operate only during the paddy season and have a very low PLF.

5.2 Hon'ble Minister of Power & NRE suggested to PSPCL to estimate biomass requirement based on the coal consumption pattern and decide the tender quantity accordingly. It was directed to immediately issue a short term tender for biomass procurement, for the current season.

5.3 Secretary (Power) observed that there is a seasonal lag between biomass availability and the operative period of PSPCL plants and advised that PSPCL may also devise a mechanism to procure the biomass pellets during the harvest period and store it for their use during their plants' operational period.

6. Hon'ble Minister of Environment, Forest & Climate Change and Labour & Employment suggested that there may be a need of policy intervention for the TPPs in NCR. The TPPs in NCR may be given Must Run status in order to accelerate and enable the co-firing Biomass in these TPPs.

6.1 Hon'ble Minister of Power & NRE directed to examine the suggestion of Must Run status to TPPs utilizing biomass.

7. Hon'ble Minister of Power & NRE suggested that TPPs may set up their own pellet manufacturing units/torrefication facilities, to convert non torrefied pellets to torrefied pellets. It shall be fruitful in the long run to the TPPs.

7.1 In this regard, Hon'ble Minister of Environment, Forest & Climate Change and Labour & Employment suggested that GENCOs may also explore to set up biomass pellets manufacturing plant through Consortium.

7.2 Hon'ble Minister of Power & NRE directed that NTPC and other TPPs in the NCR to set up pellet manufacturing units based on the cluster model. District based mapping may be done in the cluster. Thereafter, assessment of the biomass potentials in these clusters may be carried out. This will ensure that every plant will have their ensured catchment area of biomass and they do not face any difficulty in availability of biomass in future.

7.3 CMD, NTPC Ltd., requested that the state Government may facilitate in allocation of land for setting up the pellet manufacturing units as directed by Hon'ble Minister of Power & NRE.

7.4 Hon'ble Minister of Power & NRE directed that Principal Secretaries/ (Environment) from Haryana, Punjab & Uttar Pradesh be nominated as

Nodal Officers for monitoring the progress and utilization of Biomass co-firing of the TPPs in their State. He further stated that the non-compliance in this regard would be viewed very strictly. Hon'ble Minister of Environment, Forest & Climate Change and Labour & Employment appreciated the suggestion and praised the initiative by MoP and remarked that all the support to Biomass Mission will be given to achieve its objective.

8. On reviewing the status of Talwandi Sabo Power Ltd. (TSPL) & Nabha Power Ltd. (NPL), Secretary (Power) stated that these TPPs are not serious regarding the biomass co-firing in their TPP.

8.1 Hon'ble Minister of Power & NRE directed TSPL & NPL to set up their own pellet manufacturing units and also to procure biomass on short term basis in this season without any further delay.

9. MD, HPGCL informed that they have floated a long term tender for 19.3 Lakh MT for procurement of biomass and PO will be placed by 10.10.2022. Thereafter, the supply of pellets will commence after a minimum of 6 months after awarding the PO.

9.1 Secretary (Power) remarked that the progress toward co-firing by HPGCL is not adequate. He further stated that long-term tender placed by HPGCL will be effective in next season and HPGCL has not placed any short term tender for procurement of biomass in this season. This may lead to burning of parali in this season.

9.2 Hon'ble Minister of Power & NRE directed to make immediate arrangements for the short term tenders and may also set up pellet manufacturing units in the premises of their respective TPPs.

9.3 MD, HPGCL ensured that they will procure the biomass pellets in this season through spot market.

9.4 MD, HPGCL informed that their Panipat plant has some technical limitation for the use of Biomass pellets in co-firing and it has been confirmed by its OEM i.e BHEL. However, Mission Director (SAMARTH Mission) informed that all ball & Tube mill are technically feasible to use Torrefied Biomass pellets with Volatile Matter (VM) limit of 22%, including Panipat plant which is mentioned in Biomass policy as well. It may require minor modification in their Milling system.

9.5 Hon'ble Minister of Power & NRE stated that Ministry of Power will also pursue the matter of Panipat TPP with BHEL.

10. Apaarva, Jhajjar informed that they have conducted technical feasibility study and submitted the report to CEA. As per report, they can utilize only 1-2% of non-torrefied biomass pellets in their co-firing. However, it was informed that Aaparva plant is technically feasible for the usage of torrefied biomass pellets for higher percentage.

10.1 Hon'ble Minister of Power & NRE directed Apaarva TPS (JPL) to set up their own pellet manufacturing unit and also to procure biomass on short term basis in this season without any further delay.

11. Hon'ble Minister of Power & NRE remarked that all TPPs in NCR should focus on the procurement of biomass for the short term via alternate methods like spot market or commission agents as the harvesting season has already arrived. They should find alternative arrangements for the supply of biomass pellets until supply from the long term tenders starts.

11.1 It was also recommended that all TPPs in NCR shall install biomass pellet manufacturing plants (torrefied / non-torrefied) in their premises, including the private power companies. The Cost of installation to be passed through as fixed cost in tariff.

11.2 Further, all TPPs were directed to issue enough tenders to cover 5% requirement of biomass (based on average 3-years coal consumption) with special emphasis on plants located in Punjab and Haryana. The power utilities should make all out efforts to complete the procurement process for existing tenders at the earliest.

12. The Chairman, CPCB informed that they have prepared a capital subsidy scheme which is under approval. This scheme will provide financial assistance for setting up the pellet manufacturing plants in the NCR. The scheme shall provide assistance of upto Rs 70 Lakhs for Non Torrefied Units and upto Rs. 1.4 Crore for setting up Torrefied Units.

12.1 Hon'ble Minister of Power & NRE suggested that subsidy amount in CPCB scheme should cover atleast 25% of the project cost to set up torrefied/non-torrefied units to make it attractive for entrepreneurs to set up plants and also suggested that soft loans may also be considered to the sector via REC & PFC.

12.2 In this regard, Hon'ble Minister of Environment, Forest & Climate Change and Labour & Employment informed that they would consider the suggestion of Hon'ble Minister of Power & NRE before finalizing the scheme.

13. ACS(Energy), Uttar Pradesh informed that they have already taken initiative and awarded PO for the supply of 12,500 MT biomass and supply will commence from 15.10.2022. He further informed that 90,000 MT supply of biomass tender will be finalized very shortly.

13.1 It was informed that Uttar Pradesh has recently published Bio fuel policy in September, 2022. This policy will encourage the development of manufacturing units for Bio fuel & Bio Pellets and will further streamline the supply chain of domestic biomass.

14. Joint Secretary, Ministry of Agriculture & Farmer Welfare (MoAFW) apprised that MoAFW have already disbursed Rs. 600 Cr. under the scheme 'Crop Residue Management' to the Govt. of Punjab (Rs 240 Cr), Govt. of Haryana (Rs. 195 Cr) & Govt. of Uttar Pradesh (Rs 154 Cr). This Scheme will enable Custom Hiring Centers (CHCs) to hire farm and agro residue aggregation machineries during the harvesting season.

14.1 Hon'ble Minister of Power & NRE advised MoAFW to monitor the implementation of the scheme and to review it regularly to ensure whether it is benefiting the intended beneficiary. It was also advised that CHCs equipments to be made available in the catchment area of the TPPs for the biomass aggregation.

15. The Chairperson, CAQM stated that the actual utilization in TPPs as against the requirement is very low among the 9 TPPs across NCR except NTPC Ltd. plants (Jhajjar & Dadri). He further stated that tendering done so far by TPPs in NCR are also not satisfactory.

15.1 Hon'ble Minister of Power & NRE stated that after reviewing the status of all TPPs, Ministry of Power (MoP) will send its recommendations to CAQM/MoEF&CC. Based on recommendations, CAQM/MoEF&CC may consider invoking penal provisions on TPPs which are not taking enough steps to curb emissions and not co-firing sufficient quantity of biomass.

16. Regarding tariff regulation, PSPCL informed that they have filed a Petition in the State Regulatory Commission regarding pass through of the cost of pellets in ECR and they hope that it will be approved by State Commission very soon.

16.1 Hon'ble Minister of Power & NRE asked GoP to expedite the process of tariff approval and incorporate the provision for inclusion of biomass utilization in the Tariff Regulation.

16.2 HPGCL informed that HERC has already given permission for the pass through of the cost. However, GENCOs need to file a Petition in HERC subject to written clearance from their respective OEM.

17. Hon'ble Minister of Power & NRE stated that negligence toward environment cannot be tolerated any further and appropriate actions will be taken towards non-compliance of the policy. MoP would also consider reduction in coal supply of those TPPs that do not comply with the MoP's policy on biomass co-firing.

18. After detailed deliberations, the following directions were given:-

(i) All NCR TPPs shall float and expedite the short term tenders for biomass pellets for increased collection of biomass during the current harvest season.

(ii) All the TPPs shall install biomass pellet manufacturing plants (torrefied / non-torrefied) in their premises or in cluster based model, including the private sector TPPs. The State Governments will facilitate in providing land for installation of pellet manufacturing unit.

(iii) Concerned Principal Secretary (Environment) shall be nominated as Nodal Officer for monitoring the progress and utilization of Biomass co-firing of the TPPs in their state.

(iv) CAQM/MoEF&CC may consider invoking penal provisions on TPPs which are not taking enough steps to curb emissions and not co-firing sufficient quantity of biomass. Further, MoP would also consider reduction in coal supply of those TPPs that do not comply with the MoP's policy on biomass co-firing.

(v) Govt. of Haryana to ensure the biomass procurement and utilization in JPL (Apraava Energy) and Panipat TPL and furnish the report in next 10 days.

(vi) Govt. of Punjab to ensure the biomass procurement and utilization in TSPL & NPL and furnish the report in next 10 days.

The meeting ended with a vote of thanks to the chair.

Annexure-I

Sl no	Name	Organization
01	Shri. R. K Singh	Hon'ble Minister of Power & NRE ...in Co-Chair
02	Shri Bhupender Yadav	Hon'ble Minister of Environment, Forest & Climate Change and Labour & Employmentin Co- Chair
03	Shri Alok Kumar	Secretary, Ministry of Power
04	Ms. Leena Nandan	Secretary, MoEF&CC
05	Sh. Vijay Kumar Janjua	Chief Secretary, Govt. of Punjab
06	Sh. Sanjeev Kaushal	Chief Secretary, Govt.of Haryana
07	Shri Rahul Tiwari	Secretary, Science & Technology, Govt.of Punjab.
08	Dr. M. M. Kutty,	Chairperson, CAQM
09	Sh. Tanmay Kumar	Chairman, CPCB
10	Shri Mahesh Kumar Gupta	Additional Chief Secretary (Energy) , Uttar Pradesh
11	Shri Piyush Singh	Joint Secretary, Ministry of Power
12	Shri Ashish Kumar Srivastava	Joint Secretary, MoAFW
13	Shri. T.V.S.N Prasad	ACS(Home), Govt. of Haryana
14	Shri Jagminder Nain	Joint Director (AE), Govt. of Haryana
15	Sh.Mohammed Shayin	MD, HPGCL
16	Shri. P. Guru Prasad	MD,UPRVUNL
17	Er. Baldev Singh Sran	CMD, PSPCL
18	Shri Gurdeep Singh	CMD, NTPC Ltd
19	Shri Ramesh Babu V	Director (Operations), NTPC Ltd
20	Shri S Majumdar	Deputy Secretary, Ministry of Power
21	Shri Sudip Nag,	Mission Director, SAMARTH (Mission)
22	Shri Kumar Saurabh	Deputy Director, MoP
23	Shri A Balan	Member(Planning), CEA

24	Shri Dheeraj Shrivastav	Chief Engineer, CEA
25	Shri Vibhav Agarwal	CEO, TSPL
26	Shri S K Narang	CEO, NPL
27	Shri K.P Rao	VP, JPL (Apaarva)

Advisory No. 11

**COMMISSION FOR AIR QUALITY MANAGEMENT
IN NATIONAL CAPITAL REGION AND ADJOINING AREAS**

17th Floor, Jawahar Vyapar Bhawan (STC Building)
Tolstoy Marg, New Delhi-110001

F. No.120015/25/TPP/2021/CAQM

Dated: 30.08.2023

To,

1. Chairman and Managing Director, NTPC.
2. Additional Chief Secretary (New and Renewable Energy), Government of Haryana
3. Additional Chief Secretary (Additional Source of Energy), Government of Uttar Pradesh
4. Principal Secretary (Power), Government of Punjab
5. MDs of Power Plants:
 - I. Mahatma Gandhi TPS, CLP Jhajjar, Haryana
 - II. Panipat TPS, HPGCL, Haryana
 - III. Rajiv Gandhi TPS, Hisar, HPGCL, Haryana
 - IV. Deenbandhu Chhoturam TPS, Yamunanagar, HPGCL, Haryana
 - V. Guru Hargobind TPS, PSPCL, Punjab
 - VI. Nabha Power Ltd, Rajpura TPS, Punjab
 - VII. Talwandi Sabo TPS, Mansa, TSPL, Punjab
 - VIII. Guru Gobind Singh TPS, PSPCL, Punjab.
 - IX. Harduaganj TPS, UPRVUNL, Uttar Pradesh

Subject: Co-firing of Bio-mass (focusing on paddy straw-based pellets) in Thermal Power Plants.

Sir,

Grave concerns on air quality in NCR owing to paddy stubble burning in the entire NCR and adjoining areas and the potential of *ex-situ* utilisation of paddy straw for co-firing in thermal power plants led to issue of Direction No. 42 dated 17.09.2021, following an advisory on 28.07.2021 to the State Governments of Punjab, Haryana and Uttar Pradesh related to various strategies for *ex-situ* utilisation of paddy stubble.

2. The above referred statutory directions of the Commission mandate all the 11 identified thermal power plants situated up to 300 kms of Delhi to



regularly co-fire bio-mass based pellets (with focus on paddy straw) up to 5-10% of their total coal requirements, through a continuous supply chain.

3. The above stated directions were facilitated by successful field trials by NTPC and technology demonstrations in some of its plants across the country and accordingly the identified 11 thermal power plants as above, including NTPC plants, were directed for regular co-firing.

4. To this effect, while NTPC units and a select other TPPs have started regular co-firing, there are still 3 TPPs in the State of Haryana, and 4 in the State of Punjab respectively which are yet to take up co-firing on a regular basis. However, even for the plants where co-firing has been started the progress is far below the targeted quantities of biomass pellets. The progress in this regard is being regularly monitored by the Ministry of Power and the Commission. Furthermore, the MoEFCC Notification No. G.S.R. 499(E) dated 11.07.2023 stipulating EC charges in respect of TPPs not achieving the targets laid down for co-firing may be taken note.

5. During all such reviews with the thermal power plants, non-availability of biomass pellets in the desired quantities under a continuous / regular supply chain is highlighted by most of the plants including NTPC, due to Non-finalisation of tenders, owing to unworkable rates quoted by various bidders and / or for not conforming to the criteria / conditions of the tenders. Situations were also reported where some successful bidders bagged multiple tenders but lacked capability to simultaneously supply such quantities to multiple thermal power plants, including for other *ex-situ* applications in the region.

6. In all such reviews, benchmarking of price / rates for bio-mass pellets was strongly felt so as to ease out the process of repeated procurements of large quantities of agro-based pellets for co-firing in TPPs.

7. In line with the above, the Ministry of Power, Govt of India vide its letter No. 11/86/2017-Th. II dated 23.08.2023 have issued a benchmark price of non -torrefied bio-mass pellets in the NCR @Rs. 2.32 / 1000 Kcal, excluding

2 and

GST & transportation cost at the pellet manufacturing plant site, for a period of one-year w.e.f. 01.09.2023. Such pellets however, need to have a moisture content of below 14% and GCV between 2800-3400 Kcal/Kg.

8. Considering that an established benchmark price facilitates and significantly eases out the process of procurement /tendering of bio-mass pellets and with abundant availability of agro-based bio-mass, including paddy straw in particular, the state Governments and the 11 identified Thermal power plants within 300 kms of Delhi are required to substantially step-up bio-mass co-firing in their respective units as per the targeted quantities, towards effective implementation and compliance of the statutory Direction No. 42 of the Commission in letter and spirit. Appropriate action may accordingly be taken on top priority and well before the ensuing paddy harvesting season.


(Arvind Nautiyal)
Member- Secretary
Email: arvind.nautiyal@gov.in

Copy to:

1. The Chief Secretary, Government of Haryana
2. The Chief Secretary, Government of Punjab
3. The Chief Secretary, Government of Uttar Pradesh
4. The Chief Secretary, Government of Rajasthan
5. The Chairperson and all Members, CAQM.
6. Secretary, Ministry of Power


(Arvind Nautiyal)
Member- Secretary

ITEM NO.14

COURT NO.2

SECTION PIL-W

S U P R E M E C O U R T O F I N D I A
R E C O R D O F P R O C E E D I N G S

Writ Petition(s)(Civil) No(s). 13029/1985

M.C. MEHTA

Petitioner(s)

VERSUS

UNION OF INDIA & ORS.

Respondent(s)

(IN RE: CROP BURNING
BURNING OF E-WASTE IN DELHI/NCR

- 1) IA NO. 232078/2023 (APPLN. FOR INTERVENTION ON B/O MINU SINGH)
- 2) IA NO. 231822/2023 (APPLN. FOR DIRECTIONS ON B/O HARISH ARORA AND ORS.)
- 3) IA NOS. 235142, 235148 AND 235725/2023 (APPLNS. FOR INTERVENTION, PERMISSION TO APPEAR AND ARGUE IN PERSON AND TO FILE WRITTEN SUBMISSION)
- 4) IA NOS. 228781 AND 228785/2023 (APPLNS. FOR INTERVENTION AND PERMISSION TO APPEAR AND ARGUE IN PERSON)

AND

IN RE: COLOUR-CODED STICKERS

(5) IA NOS. 61328/2020, 237378/2023 AND 61330/2020 (APPLNS. FOR DIRECTIONS AND EXEMPTION FROM FILING O.T. ON BEHALF OF SIDDHARTH NAYAK)

AND

IN RE: REGIONAL RAPID TRANSPORT SYSTEM

DELHI - ALWAR AND DELHI - PANIPAT CORRIDOR

(6) IA NO. 238763/2023 (APPLN. FOR DIRECTIONS ON B/O NATIONAL CAPITAL REGION TRANSPORT CORP. LTD.)

ONLY" IN W.P.(C) NO. 13029/1985 IS LISTED.

"ONLY" NAME OF THE FOLLOWING ADVOCATES MAY BE TREATED TO HAVE BEEN SHOWN IN THE LIST:

- MR. HARISH N. SALVE, SR. ADVOCATE (A.C.)
MS. APARAJITA SINGH, SR. ADVOCATE (A.C.)
MR. A.D.N. RAO, SR. ADVOCATE (A.C.)
MR. SIDDHARTHA CHOWDHURY, ADVOCATE (A.C.)

PETITIONER-IN-PERSON

- G.S. MAKKER,
MR. AMRISH KUMAR,
MR. SANJAY KR. VISEN,
MR. SUDEEP KUMAR,
MS. ROOHE HINA DUA,
MR. SANDEEP KR. JHA

MR. JYOTI MENDIRATTA,
MS. VRINDA BHANDARI,
MR. MUDIT GUPTA,
MR. VIKRAM GULATI, APPLICANT-IN-PERSON (ADVOCATE)
MR. MANISH BHATNAGAR, APPLICANT-IN-PERSON (ADVOCATE),
MR. ANIL KUMAR,
MR. KARUNAKAR MAHALIK, ADVOCATES)

Date : 13-12-2023 This petition was called on for hearing today.

CORAM :

HON'BLE MR. JUSTICE SANJAY KISHAN KAUL
HON'BLE MR. JUSTICE SUDHANSHU DHULIA

Ms. Aparajita Singh, Sr. Adv. (A.C.)
Mr. A.D.N. Rao, Sr. Adv. (A.C.)
Mr. Siddhartha Chowdhury, Adv. (A.C.)
Mr. Harish N. Salve, Sr. Adv. (A.C.) (NP)

Mr. R. Venkataramani, Ld. Attorney General
Ms. Aishwarya Bhati, A.S.G.
Mr. Gurmeet Singh Makker, AOR
Ms. Suhasini Sen, Adv.
Mr. Rajesh Kumar Singh, Adv.
Mr. S.S. Rebello, Adv.
Mr. Subhranshu Padhi, Adv.
Ms. Archana Pathak Dave, Adv.
Mr. Wasim Qadri, Adv.
Ms. Ruchi Kolhi, Adv.

Mrs. Aishwarya Bhati, A.S.G.
Mr. Amrish Kumar, AOR
Mrs. Suhasini Sen, Adv.
Mr. Rajesh Kumar Singh, Adv.
Mr. Shubhranshu Padhi, Adv.
Mrs. Archana Pathak Dave, Adv.
Mr. Gaurang Bhushan, Adv.

Mrs. Aishwarya Bhati, ASG
Ms. Alka Agrawal, Adv.
Ms. Baby Devi Bonia, Adv.
Ms. Archana Pathak Dave, Adv.
Mr. Anirudh Bhat, Adv.
Mr. Prashant Singh, Adv.
Ms. Sonali Jain, Adv.
Ms. Ruchi Kohli, Adv.
Mr. Raj Bahadur Yadv, AOR

Mr. Gurminder Singh Ag Punjab, Adv.
Mr. Shadan Farasat, A.A.G.
Ms. Rooh-e-hina Dua, AOR
Mr. Harshit Khanduja, Adv.
Mr. Umang Mehta, Adv.

Mr. Lokesh Sinhal, Sr. A.A.G.
Mr. B.k. Satija, A.A.G.
Mr. Rahul Khurana, Adv.
Ms. Suvarna Singh, Adv.
Mr. Aman Prasad, Adv.
Mr. Jha Amlendu Kumar Akhilesh Kumar, Adv.
Ms. Mohini Kumari, Adv.
Mr. Sanjay Kr. Visen, AOR

Ms. Garima Prasad, AAG, U.P, Sr. Adv.
Mr. Sudeep Kumar, AOR

Dr. Manish Singhvi, Sr. Adv.
Mr. Sandeep Kumar Jha, AOR

Mr. S. Muralidhar, Sr. Adv.
Mrs. Meenakshi Arora, Sr. Adv.
Ms. Jyoti Mendiratta, AOR

Ms. Vrinda Bhandari, AOR

Mr. Vikas Singh, Sr. Adv.
Mr. Mudit Gupta , AOR
Mr. Varun Singh, Adv.
Ms. Deepeika Kalia, Adv.
Ms. Kajal S Gupta, Adv.
Ms. Somea Gupta, Adv.
Mr. Keshav Khandelwal, Adv.
Ms. Vaishnavi, Adv.

Mr. Vikram Gulati, Applicant-In-Person

Mr. Manish Bhatnagar, Applicant-In-Person

Mr. Vipin Sanghi, Sr. Adv.
Mr. Anil Kumar, AOR
Mr. Saif Ali, Adv.
Ms. Pratiksha Chaturvedi, Adv.
Mr. Shubhendu Shukla, Adv.

Mr. A.N.S. Nadkarni, Sr. Adv.
Mr. Rajesh Katyal, Adv.
Mr. Devendra Kumar Singh, Adv.
Mr. S.S. Rebello, Adv.
Ms. Deepti A., Adv.
Mr. Arzu Paul, Adv.
Ms. Manisha Gupta, Adv.
Mr. Siddhant Gupta, Adv.
Mr. Rishikesh Gupta, Adv.
Mr. Karunakar Mahalik, AOR

Mr. Avijit Mani Tripathi, AOR

Mr. T.K. Nayak, Adv.

UPON hearing the counsel the Court made the following
O R D E R

IA NO. 238763/2023

Mr. S. Murlidhar, learned senior counsel sought to raise an issue that while the State Government has made the budgetary provision for Delhi-Alwar And Delhi- Panipat Corridor, they were awaiting approval of the Central Government. We may note that the other States have already transferred the money in 2019 and 2020 and learned Attorney General present on behalf of the Union Government submits that there is no problem insofar as the formal approval is concerned. We thus grant 7 days' time to Delhi Government to transfer the amount.

Needless to say that the Delhi Government would continue to abide by the schedule and not give opportunity to this Court to revive the order dated 21.11.2023.

IN RE: CROP BURNING

Affidavit dated 06.12.2023 filed by the State of Punjab shows that the environmental compensation recorded as on that date is 53.10%. The recoveries must be speeded up. An endeavour has been made in

para 3 to submit that farm fires between 15.09.2023 to 30.11.2023 have been less in 2023. Point is still farm fires are significant and all this must stop.

Learned Attorney General has submitted a note on behalf of the Union of India qua the steps to be taken and places the minutes of the meeting of the Committee of Secretaries chaired by the Cabinet Secretary for reviewing the air quality management in Delhi.

Five meetings have been held to crystallize the issue. Learned Attorney General in para 3 of the report has set out the steps to be taken by the Government of Haryana and Punjab. The same are as under:

"a. Actions to be taken by State Governments of Haryana and Punjab: It is respectfully submitted that the State Governments may take the following steps and report compliance to this Hon'ble Court of the same:

i. To effectively implement the existing centrally sponsored Schemes for in-situ/ex-situ management of crop residue on a mission mode. They may provide additional incentives as required.

ii. Government of Punjab may devise and implement various incentives schemes on the lines already implemented by the State of Haryana for reducing stubble burning.

iii. The Departments of Agriculture & Farmers Welfare of the State Governments may consider inclusion of ex-situ management components in CRM scheme.

iv. The States may ensure that Environment Compensation is levied and realized in all stubble burning cases as identified through ISRO protocol.

v. The States may take immediate steps to put in

place mechanisms for making RED entry in farm records for all cases of stubble burning identified through ISRO protocol. Department of Food and Public Distribution may consider the suggestion to exclude the farmers who resort to stubble burning from MSP operations.

vi. Additionally, with respect to the MSP it is respectfully submitted that the Government of India fixes MSP for 22 mandated agricultural crops on the expert and technical recommendations of the Commission on Agricultural Costs and Prices (The "CACP"), after considering the views of the concerned State Governments and Central Ministries/Departments. The CACP considers various factors viz. cost of production, overall demand-supply situations of various crops in domestic and world markets, domestic and international prices, inter-crop price parity, terms of trade between agriculture and non agriculture sector, likely effect of price policy on rest of economy and a minimum of 50 percent as the margin over cost of production. Cost of production includes all paid out costs - such as hired human labour, bullock labour/machine labour, rent for leased in land, expenses incurred in cash/kind on the use of material inputs like seeds, fertilizers, manures, irrigation charges, depreciation on implements and farm buildings, interest on working capital, diesel/electricity for operation of pump sets etc., miscellaneous expenses and imputed value of family labour. The MSP fixed provides at least 50% return over all India weighted average cost of production. These benefits of the MSP are available to the farmers all across the country. It respectfully submitted that is not appropriate to raise the price of crops simply to make them competitive with rice. This will result in a complete distortion of market prices and cannot be resorted to for any one State.

b. Action to be taken by the Government of Punjab:

- To devise and implement incentive schemes for diversification from paddy and work with grain-based distilleries to facilitate Procurement of maize from farmers. It is respectfully submitted that the State Government of Punjab may report compliance to this Hon'ble Court on these aspects in addition to those set out above."

We direct the State Governments to take steps in

respect of the aforesaid and submit a report to this Court within two months from today. There are other aspects also in the report whereby steps are to be taken by different authorities which are reproduced hereunder:

"c. Inter-Ministerial Committee with special Secretary, Ministry of Agriculture and Farmers Welfare, Ministry of Power, Ministry of New & Renewable Energy (MNRE), Ministry of Petroleum & Natural Gas, Ministry of Environment Forests & Climate Change, Commission for Air Quality Management and the Central Pollution Control Board:

i. To regularly monitor the effective time bound implementation of the various schemes for management of paddy straw in a convergent and synergistic manner.

ii. State Governments should take all necessary actions to ensure that these schemes are fully implemented on ground.

iii. The Inter-Ministerial Committee may hold regular review meetings with State Governments in Delhi and may also visit States for effective monitoring and timely resolution of any issues.

d. Ministry of Power:

- To ensure that all Thermal Power Plants (TPPs) within range of 300 km of Delhi and all captive TPPs implement the CAQM direction for co-firing minimum 5% of biomass along with coal.

e. Ministry Of Petroleum and Natural Gas (MoPNG):

- To encourage private entrepreneurs to set up more CBG plants in Punjab and Haryana under its scheme for setting up CBG plants.

f. CAQM:

- Apart from the regular coordination meetings and actions being taken by CAQM, follow up action on decisions taken in CoS meetings pertaining to CAQM may also be actively pursued by CAQM.

g. Urban Local Bodies in NCR like MCD,NDMC,NOIDA etc.:

i. To ensure strict enforcement of guidelines related to construction activities round the year and submit periodic compliance report in this regard to CAQM.

ii. CAQM to monitor action taken regularly.

h. Action to be taken by the GNCTD and NCR States for better implementation of the Graded Response Action Plan ("GRAP"): It is submitted that the GNCTD may take urgent and effective steps to address the following lacunae noted in the implementation of the various stages of GRAP as and when the said stages are in force:

i. Overaged / EOL vehicles (10 year old diesel/ 15 year old petrol) still plying in NCR, and therefore steps must be taken to address this issue

ii. More intensified drives on vehicles with invalid PUC are required

iii. Enforcement of diversion of non-destined truck for Delhi.

iv. Further intensified action on visibly polluting vehicles, overloaded vehicles, uncovered vehicles carrying C&D materials including debris.

v. Addressing the inadequacy of infrastructure and resources for complete mechanised sweeping and water sprinkling in all identified roads.

vi. Addressing the inadequacy of anti-smog guns at vulnerable locations in major infrastructure projects, road projects.

vii. Addressing the issue of ineffective dust control measures in C&D project sites.

viii. Concerted actions found wanting as per "air pollution hotspots" mitigation plans.

ix. Open MSW burning being resorted to for warming / heating purposes and therefore steps must be taken to address this issue

x. Addressing the issue of ineffective ban on coal fired tandoors in dhabas.

xi. Addressing the issue of ineffective implementation of regulations related to DG sets."

The aforesaid authorities will also duly

implement what they are required to do and submit a report within two months.

IN RE: COLOUR-CODED STICKERS

Mr. Vipin Sanghi, learned senior counsel flags the issue of colour coding of the scheme. The same forms part of the minutes of the meeting at para 14 which reads as under :

14. There was a suggestion for strict enforcement of the Scheme for hologram-based color-coded stickers for vehicles. The Committee was apprised that this scheme is being implemented by all the States. Committee was informed that out of the nearly 27 lakh vehicles in Delhi, 17-18 lakh already have colour coded stickers. The remaining vehicles are primarily old vehicles bought before the implementation of the scheme in 2019. The Committee urged GNCTD of Delhi to ensure compliance with it. At the same time CAQM, in consultation with MoRTH, may examine the practical utility of this measure for improving air quality."

The submission is that once the law exists, it must be implemented. To that extent there can be no cavil and it is the duty of all State Governments to ensure that the law is implemented without any caveat to it. The Committee of Secretaries may call for a report from all State Governments about the progress made in implementation of this aspect of law to ensure that if there are any delinquent States, they comply with the same and that aspect may be brought to the notice of this Court.

IA NO. 232078/2023

Mr. Vikas Singh, learned senior counsel submits that Committee has taken care of the concerns expressed in this application and the application is disposed of accordingly.

IN RE: BURNING OF E-WASTE IN DELHI/NCR

At the suggestion of the learned Amicus we direct the Commission for Air Quality Management(CAQM) to also consider the issue of e-waste burning and as to how to implement it so that it does not aggravate the situation at the time of the Winters.

We do believe that there has to be some judicial monitoring to ensure that we are not again faced with the same scenario next winters. Thus it may be appropriate to continue to list this matter periodically for a judicial monitoring even though there is CAQM and seek reports.

List on 27.02.2024.

We must appreciate the role being placed by Ms. Aparajita Singh, Mr. A.D.N. Rao, and Mr. Siddhartha Chowdhury, learned Amici in these matters jointly.

IA NOS. 228781, 228785/2023

These applications are disposed of requiring them to be placed before CAQM.

[CHARANJEET KAUR]
ASTT. REGISTRAR-cum-PS

[POONAM VAID]
COURT MASTER (NSH)



राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्र
वायु गुणवत्ता प्रबंधन आयोग
Commission for Air Quality Management in
National Capital Region and
Adjoining Areas



F. No. 120015/25/TPP/2021/CAQM - 589

Dated 26th December, 2023

To,

The Secretary,
Ministry of Power,
Government of India,
Shram Shakti Bhawan, Rafi Marg,
New Delhi-110001

Subject: Poor compliance by TPPs located within 300 Km Delhi in respect of co-firing of biomass- reg.

Sir,

To address the concerns of adverse air quality scenario in Delhi-NCR owing to paddy stubble burning and to mitigate the effect of such a contributory source, the Commission had issued Direction No. 42 dated 17.09.2021 and Advisory No.- 11 dated 30.08.2023 mandating regular co-firing of 5-10 % biomass replacing coal (comprising of at least 50% paddy straw) in the identified 11 TPPs located within 300 Km of Delhi.

2. However, despite regular monitoring and follow up with the stakeholders by the Commission and the MoP; and adequately addressing the issues related to benchmark pricing of non-torrefied bio-mass pellets / procurement of pellets, the progress made by most of the TPPs is far from adequate.

3. Against a target of minimum co-firing of 5% biomass in the TPPs, during the year 2023, till November, only **85,624** tonnes of biomass has been cumulatively co-fired in these power plants, which is a miniscule **4.75** % of the target itself. Further, 3 TPPs in the State of Haryana, and 1 in the State of Punjab are yet to take up co-firing on a regular basis.

4. The Hon'ble Supreme Court vide its order dated 13.12.2023 in W. P. (Civil) No. 13029 of 1985, M.C. Mehta Vs UOI has also *inter alia* directed the Ministry of Power to "ensure that all the Thermal Power Plants (TPPs) within range of 300 Km of Delhi and all captive TPPs implement the CAQM Direction for co-firing minimum 5% of biomass along with coal".

17 वी मंजिल, जवाहर व्यापार भवन (एस. टी.सी. बिल्डिंग), टॉलस्टॉय मार्ग, नई दिल्ली-110001

दूरभाष : 011-23701213, ई-मेल : caqm-ncr@gov.in

17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg, New Delhi-110001

Tel:011-23701213, E-mail: caqm-ncr@gov.in

:2:-

5. Action taken in pursuance of the above said Orders of the Hon'ble Supreme Court in this regard, may kindly be communicated to the Commission by 07.01.2024 as part of coordinating the response from various stakeholders to apprise the Cabinet Secretariate.

Yours faithfully,



(R.K. Agrawal)

Director, CAQM

rk.agrawal69@gov.in

डॉ. ए. एम. कुट्टी
अध्यक्ष
Dr. M. M. Kutty
Chairperson



राष्ट्रीय राजधानी क्षेत्र और
निकटवर्ती क्षेत्रों में
वायु गुणवत्ता प्रबंधन के लिए आयोग
Commission for Air Quality Management in
National Capital Region and
Adjoining Areas

D.O. No. 120015/25/TPP/2021/CAQM /739(4K)

Dated: 9th February, 2024

Dear Shri Anurag,

The Commission has repeatedly taken up with PSPCL, M/s Talwandi Sabo Power Plant (TSPL), M/s Nabha Power Limited (NPL) and Government of Punjab regarding the continuous poor performance of four Thermal Power Plants (TPPs), two of PSCPL - located in Ropar (GGSSTP), Lehra Muhabbat (GHTP) and two others i.e. TSPL (Vedanta) and NPL (L & T) in complying with the Commission's Direction No. 42 issued on 17/09/2021. The Direction mandates co-firing of 5-10 % biomass/ biomass-based pellets by TPPs located within 300 Km of Delhi, as part of ex-situ management of stubble/ biomass to prevent its burning and in the process reduce air pollution due to stubble burning.

2. You are also aware that the Hon'ble Supreme Court of India, in W. P. (C) No. 13029/1985, 'M.C. Mehta V/s Union of India and Ors.', while hearing the matter related to air pollution in Delhi-NCR, has passed series of orders to control stubble burning including utilization of biomass-based pellets in TPPs and has also ordered to continue to list the matter periodically for judicial monitoring. The matter is now listed for 27/02/2024.

3. Hon'ble Supreme Court in its order dated 13.12.2023 in W. P. (Civil) No. 13029 of 1985, M.C. Mehta Vs UOI has *inter alia* directed to "ensure that all the Thermal Power Plants (TPPs) within range of 300 Km of Delhi and all captive TPPs implement the CAQM Direction for co-firing minimum 5% of biomass along with coal".

4. Pursuant to the orders of the Hon'ble Supreme Court, the Committee of Secretaries (CoS), chaired by Cabinet Secretary has also held meetings and the minutes of the meetings were duly sent to Government of Punjab. The Committee of Secretaries in the minutes of the meeting issued on 19th January, 2024 has noted that out of 11 TPPs, 7 TPPs contributed to co-firing of 1,21,582 tonnes (~ 6.7 % of the target) of biomass in 2023.

5. In the meetings of CoS, it has been directed to ensure that target of biomass in all Thermal Power Plants within 300 Km of Delhi is strictly complied with. Others sector may also be identified where biomass pellets could be utilized for co-firing and may ensure utilisation of biomass in such identified sectors.

6. You may please note that a "Policy to Curb Air Pollution in NCR" of the Commission in July, 2022 was shared with Government of Punjab vide this office letter No. 16014/13/2021/MERD, dated 06/07/2022 & 27.07.2022. The sector-wise plan for abatement of air pollution caused by crop residue/ stubble burning in the policy may also be referred to.

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17 वीं मंजिल, जवाहर व्यापार भवन (एस.टी.सी. बिल्डिंग), टॉलस्टॉय मार्ग, नई दिल्ली-110001
दूरभाष : 011-23701191, ई-मेल : kutydm@nic.in

17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg, New Delhi-110001

Tel. : 011-23701191, E-mail : kutydm@nic.in

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7. Considering the above position, it is requested to :-

- (iii) Take cognizance of the 'Rate Contract mechanism' put in place by the Ministry of Power, Government of India to expedite procurement of pellets for TPPs;
- (iv) Review to ensure that orders of Hon'ble Supreme Court and recommendations of the CoS with regarding co-firing in the four TPPs of Punjab are complied with.

8. Action taken in this regard, may please be communicated to the Commission, by 15th February, to enable the Commission to appropriately apprise the Hon'ble Supreme Court in the next day of hearing i.e. 27th February, 2024.

With best wishes

M Yours sincerely
(Dr. M. M. Kuffy)

Shri Anurag Verma,
Chief Secretary, Government of Punjab
6th Floor, Punjab Civil Secretariat -1, Sector - 1
Chandigarh 160001.

डॉ. एम. एम. कुट्टी

अध्यक्ष

Dr. M. M. Kutty

Chairperson



सत्यमेव जयते

राष्ट्रीय राजधानी क्षेत्र और
निकटवर्ती क्षेत्रों में
वायु गुणवत्ता प्रबंधन के लिए आयोग
Commission for Air Quality Management in
National Capital Region and
Adjoining Areas

D.O. No. 120015/25/TPP/2021/CAQM/738(4K)

Dated: 9th February, 2024

Dear Sangeev,

The Commission has repeatedly taken up with HPGCL and Government of Haryana regarding the continuous poor performance of the three Thermal Power Plants (TPPs) of HPGCL- located in Yamuna Nagar (DCRTPP), Panipat (PTPS) and Hissar (RGTPP) in complying with the Commission's Direction No. 42 issued on 17/09/2021. The Direction mandates co-firing of 5-10 % biomass/ biomass-based pellets by TPPs located within 300 Km of Delhi, as part of ex-situ management of stubble/ biomass to prevent its burning and in the process reduce air pollution due to stubble burning.

2. You are also aware that the Hon'ble Supreme Court of India, in W. P. (C) No. 13029/1985, 'M.C. Mehta V/s Union of India and Ors.', while hearing the matter related to air pollution in Delhi-NCR, has passed series of orders to control stubble burning including utilization of biomass-based pellets in TPPs and has also ordered to continue to list the matter periodically for judicial monitoring. The matter is now listed for 27/02/2024.

3. Hon'ble Supreme Court in its order dated 13.12.2023 in W. P. (Civil) No. 13029 of 1985, M.C. Mehta Vs UOI has *inter alia* directed to "ensure that all the Thermal Power Plants (TPPs) within range of 300 Km of Delhi and all captive TPPs implement the CAQM Direction for co-firing minimum 5% of biomass along with coal".

4. Pursuant to the orders of the Hon'ble Supreme Court, the Committee of Secretaries (CoS), chaired by Cabinet Secretary has also held meetings and the minutes of the meetings were duly sent to Government of Haryana. The Committee of Secretaries in the minutes of the meeting issued on 19th January, 2024 has noted that out of 11 TPPs only 7 TPPs contributed to co-firing of 1,21,582 tonnes (~ 6.7 % of the target) of biomass in 2023, **whereas 3 TPPs of Haryana not yet even started the co-firing and need to start co-firing immediately.**

5. In the meetings of CoS, it has been directed to ensure that target of biomass in all Thermal Power Plants within 300 Km of Delhi is strictly complied with. Others sector may also be identified where biomass pellets could be utilized for co-firing and may ensure utilisation of biomass in such identified sectors.

6. You may please note that a "Policy to Curb Air Pollution in NCR" of the Commission in July, 2022 was shared with Government of Haryana vide this office letter No. 16014/18/2021/MERD, dated 06/07/2022 & 27.07.2022. The sector-wise plan for abatement of air pollution caused by crop residue/ stubble burning in the policy may also be referred to.

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17 वीं मंजिल, जवाहर व्यापार भवन (एस.टी.सी. बिल्डिंग), टॉलस्टॉय मार्ग, नई दिल्ली-110001
दूरभाष : 011-23701191, ई-मेल : kuttydm@nic.in

17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg, New Delhi-110001

Tel. : 011-23701191, E-mail : kuttydm@nic.in

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7. Considering the above position, it is requested to :-

- (v) Take cognizance of the 'Rate Contract mechanism' put in place by the Ministry of Power, Government of India to expedite procurement of pellets for TPPs ;
- (vi) Review to ensure that orders of Hon'ble Supreme Court and recommendations of the CoS with regarding co-firing in the three TPPs of Haryana are complied with.

8. Action taken in this regard, may please be communicated to the Commission, by 15th February, to enable the Commission to appropriately apprise the Hon'ble Supreme Court in the next day of hearing i.e. 27th February, 2024.

With best wishes

Yours sincerely

(Dr. M. M. Kuty)

Shri Sanjeev Kaushal,
Chief Secretary,
Government of Haryana
4th Floor, Haryana Civil Secretariat, Sector-1,
Chandigarh.

विरिन्दर शर्मा
सदस्य तकनीकी
Virinder Sharma
Member Technical



राष्ट्रीय राजधानी क्षेत्र और
निकटवर्ती क्षेत्रों में
वायु गुणवत्ता प्रबंधन के लिए आयोग
Commission for Air Quality Management in
National Capital Region and
Adjoining Areas

D.O. No. 120015/25/TPP/2021/CAQM - 749

Dated: 13th February, 2024

Dear Shri D S Mishra ji,

The Commission in its various review meetings had repeatedly taken up with UPRVUNL-Harduaganj TPP, regarding concern over plant's non-satisfactory progress towards augmentation of co-firing/ performance in respect of Commission's Direction No.-42. The Direction mandates co-firing of 5-10 % biomass/ biomass-based pellets by TPPs located within 300 Km of Delhi, as part of *ex-situ* management of stubble/ biomass to prevent its burning and in the process to reduce air pollution due to stubble burning.

2. You are also aware that the Hon'ble Supreme Court of India, in W. P. (C) No. 13029/1985, 'M.C. Mehta V/s Union of India and Ors.', while hearing the matter related to air pollution in Delhi-NCR, has passed series of orders to control stubble burning including utilization of biomass/ biomass based pellets in TPPs and has also ordered to continue to list the matter periodically for judicial monitoring. The matter is now listed for 27/02/2024.

3. Hon'ble Supreme Court in its order dated 13.12.2023 in W. P. (Civil) No. 13029 of 1985, M.C. Mehta Vs UOI has, *inter alia*, directed the Ministry of Power to "ensure that all the Thermal Power Plants (TPPs) within range of 300 Km of Delhi and all captive TPPs implement the CAQM Direction for co-firing minimum 5% of biomass along with coal".

4. Pursuant to the orders of the Hon'ble Supreme Court, the Committee of Secretaries (CoS), chaired by Cabinet Secretary has also held meetings and the minutes of the meetings were duly sent to Government of Uttar Pradesh. The Committee of Secretaries in the minutes of the meeting issued on 19th January, 2024 has noted that out of 11 TPPs only 7 TPPs contributed to co-firing of 1,21,582 Tonnes (~ 6.7 % of the target) of biomass in 2023.

5. In the meeting of CoS, it has also been directed to ensure that target of biomass in all Thermal Power Plants within 300 Km of Delhi is strictly complied with. Other sectors may also be identified where biomass pellets could be utilized for co-firing, and may ensure utilisation of biomass in such identified sectors.

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17 वीं मंजिल, जवाहर व्यापार भवन (एस.टी.सी. बिल्डिंग), टॉलस्टॉय मार्ग, नई दिल्ली-110001

दूरभाष : 011-23701213, ई-मेल : caqm-ncr@gov.in

17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg, New Delhi-110001

Tel. : 011-23701213, E-mail : caqm-ncr@gov.in

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6. You may please note that a "Policy to Curb Air Pollution in NCR" of the Commission in July, 2022 was shared with Government of Uttar Pradesh vide this office letter No. 16014/18/2021/MERD, dated 06.07.2022 & 27.07.2022. The sector-wise plan for abatement of air pollution caused by crop residue/ stubble burning in the policy may also be referred to.

7. Considering the above position, it is requested to:-

- (i). Take cognizance of the 'Rate Contract mechanism' put in place by the 'Ministry of Power', Government of India and to take immediate actions to implement the directives without waiting for finalization of the related tendering process. Specific action taken in this regard, may kindly be expedited for procurement of pellets for TPPs;
- (ii). Review the performance of TPP to ensure that orders of Hon'ble Supreme Court and recommendations of the CoS regarding co-firing are complied with

Action taken in this regard, may please be communicated to the Commission, by 15th February, 2024 to enable the Commission to appropriately apprise the Hon'ble Supreme Court in the next date of hearing i.e. 27th February, 2024.

With regards,


(Dr. Virinder Sharma)
Member Technical

Shri Durga Shanker Mishra,
Chief Secretary, Government of Uttar Pradesh
101, 'B' Block, Lok Bhawan, U.P. Secretariat,
Lucknow - 226001.

Copy also to: Dr. Ashish Kumar Goel,
The Chairman,
Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited,
14, Ashok Marg, Shakti Bhavan, Lucknow



राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्र
वायु गुणवत्ता प्रबंधन आयोग
Commission for Air Quality Management in
National Capital Region and
Adjoining Areas



F.No.-120015/25/TPP/CAQM/(HPGCL-TPPS) 767

Dated:15.02.2024

NOTICE

NOTICE BEFORE CONSIDERATION OF ACTION UNDER SECTION – 14 OF THE COMMISSION FOR AIR QUALITY MANAGEMENT IN NCR & ADJOINING AREAS ACT, 2021 FOR NON-COMPLIANCE OR CONTRAVENTION OF THE PROVISIONS OF THE ACT AND THE DIRECTIONS ISSUED UNDER SECTION 12(2)(XI) WITH RESPECT TO CO-FIRING PADDY STUBBLE IN COAL BASED THERMAL POWER PLANTS (TPPS) AS PART OF EX-SITU PADDY STRAW MANAGEMENT FOR PREVENTION AND CONTROL OF AIR POLLUTION.

WHEREAS, Ministry of Environment, Forest and Climate Change, Government of India, in exercise of the power conferred under Section 3 of the Commission for Air Quality Management in National Capital Region and Adjoining Area Act 2021, has constituted the Commission for Air Quality Management in National Capital Region and Adjoining Areas (hereinafter referred to as the Commission);

WHEREAS, the Commission for Air Quality Management in National Capital Region and Adjoining Areas Act, 2021 (CAQM Act) empowers the Commission to take all such measures and issue directions as it deems necessary or expedient for the purpose of protecting and improving the quality of the air in the National Capital Region and Adjoining Areas;

WHEREAS, Section 12(2) (xi) of the CAQM Act empowers the Commission to issue directions in writing to any person, officer or any authority, which includes power to direct closure, prohibition or regulation of any industry, operation or process and also includes stoppage or regulation of supply of electricity or water or any other service;

WHEREAS, the Commission, from time to time, has issued directions in respect of measures to prevent, control and abate air pollution in the National Capital Region including directions for strict compliance of air pollution control laws in force;

WHEREAS, the Commission has rigorously taken up the matter of ex-situ management of agricultural stubble including with the Government of Punjab, Haryana, Uttar Pradesh, TPPs and Departments concerned of the Central Government with special emphasis on use of agricultural residue / biomass pellets as fuel for co-firing in Coal based TPPs;

WHEREAS, the Commission issued Advisory dated 28.07.2021 to the State Govt. of Punjab, Haryana and Uttar Pradesh w.r.t. 'Ex-situ stubble management for tackling the problem of stubble burning' considering utilization of biomass pellets/ biomass for co-firing in TPPs;

WHEREAS, the Commission after detailed deliberations and taking inputs of stakeholders including Power Department of State Governments concerned in various meetings, confirming scope/feasibility and implementation of co-firing by NTPC in its plants; had issued Direction No 42, dated 17.09.2021 to all 11 Thermal Power Plants located within 300 km radius of Delhi mandating co-firing of biomass/ pellets up to 5-10 % substituting coal with immediate effect;

WHEREAS, the Commission keeping in view the importance and criticality of control of stubble burning had vigorously taken up co-firing of bio-mass/ pellets in coal based Thermal Power Plants as a viable and major alternate even before the issuance of Statutory Directions with State Governments, Departments of Central Ministries, NTPC etc. through various meetings dated 13.07.2021, 19.08.2021, 24.08.2021 and 09.09.2021. The progress of compliance of Direction No.- 42, dated 17.09.2021 had further been continuously reviewed by the Commission in its various meetings held on 15.03.2022, 14.09.2022, 25.04.2023, 22.09.2023 and 10.01.2024, with the TPPs and stakeholder agencies and minutes were duly issued;

WHEREAS, Ministry of Power had issued "rate contract" mechanism and procedure for purchase of pellets vide letters dated 23.08.2023 & 08.11.2023 and the Commission through its Advisory No 11 dated 30.08.2023 and MoM dated 22.09.2023 emphasized procurement of pellets using the benchmark price mechanism to substantially step-up bio-mass co-firing in TPPs as per the targeted quantities, towards effective implementation and compliance of the Statutory Direction No 42 of the Commission in letter and spirit;

WHEREAS, the Committee of Secretaries (CoS) pursuant to the orders of Hon'ble Supreme Court has also held meetings including status of co-firing by TPPs and has recommended to ensure the target of co-firing of biomass in all TPPs within 300 km of Delhi is strictly complied with;

WHEREAS, despite Statutory Directions, repeated meetings / reviews/ facilitations, M/s Panipat Thermal Power Station (PTPS), Village Assan, Jind Road, Panipat, Haryana has continuously failed to ensure co-firing of requisite / targeted biomass/ biomass-based pellets in their unit;

WHEREAS, as per the periodical reports received from the Ministry of Power, Government of India, M/s Panipat Thermal Power Station (PTPS) has co-fired '0' Tonnes in 2022 against the target of 0.71 LMT (~194 TPD), '0' Tonnes in 2023 against the target of 1.03 LMT (~283 TPD), and '0' Tonnes in 2024 (upto January, 2024) against the target of 1.03 LMT (~283 TPD). The data available with the Commission, depicts that M/s Panipat Thermal Power Station (PTPS) has failed to comply with the directives/ mandates of the Commission, which is being observed as serious violation of the Directives;

WHEREAS, Section 14 of the CAQM Act provides penalty for contravention of provisions of Act / Rule / Order or Direction issued by the Commission and any non-compliance or contravention shall be an offence.

WHEREAS, the Act states that where an offence under this Act has been committed by a Company, every Person, who at the time when the offence was committed was directly in-charge of and was responsible to the Company for the conduct of the business of the Company as well as the Company shall be deemed to be dealt guilty of the offence and shall be liable to be proceed against and punished accordingly.

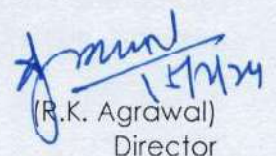
NOW, THEREFORE, in view of the above and in line with the principles of Natural Justice, an opportunity is hereby given to You and the Company, by way of this Notice, to explain why action should not be initiated as stipulated under Section – 14 of the Act, for continuous non-compliances of Statutory Direction No.-42 Dated 17/09/2021.

Your explanation should reach to the Commission within thirty (30) days from the date of issue of the Notice, failing which, it will be presumed that you and the Company have nothing to state and action as per the provisions of the Act shall be initiated accordingly.


(R.K. Agrawal)
Director

To,

1. Sh. Mohammed Shayin, IAS
The Managing Director
Haryana Power Generation Corporation Limited (HPGCL)
Room No.411, 3rd Floor, Urja Bhawan,
C-7, Sector-6, HPGCL Panchkula
E-mail: md@hpgcl.org.in
2. Sh. Manoj Kumar Aggarwal
The Chief Engineer
Panipat Thermal Power Station, Village Assan,
Jind Road, Panipat, Haryana, PIN - 132105
E-mail: cepts@hpgcl.org.in


(R.K. Agrawal)
Director



HARYANA POWER GENERATION CORPORATION LIMITED
Regd. Office – C-7, Urja Bhawan, Sector-6, Panchkula
Corporate Identity Number: U45207HR1997SGC033517
Website: www.hpgcl.org.in E-mail: info@hpgcl.org.in

From

Chief Engineer/ PTPS,
 HPGCL, Panipat.

To

The Director,
 Commission for Air Quality Management,
 17th Floor, Jawahar Vyapar Bhawan (STC Building),
 Tolstoy Marg New Delhi-110001.

Memo No. - 09/PA/CE/MF

Dated : 07-03-2024

Subject: - Notice before consideration of action under Section-14 of the Commission for Air Quality Management in NCR & Adjoining Areas Act, 2021 for non-compliance or contravention of the provisions of the Act and the directions issued under Section-12 (2) (XI) with respect to co-firing paddy stubble in coal based Thermal Power Plants (TPPs) as part of Ex-situ paddy straw management for prevention and control of air pollution.

Respected Sir,

In above reference to CAQM Notice no.120015/25/TPP/CAQM/(HPGCL-PTPS) 767 dated 15.02.2024, it is submitted as under:

1. Central Electricity Authority, Ministry of Power, GoI on 24.11.2017 issued Policy wherein it was directed that all coal based Thermal Power Plants having bowl mills, except those having ball and tube mill, shall endeavour to use 5-10% blend of biomass pellets made primarily of agro residue along with coal.
2. In this regard, it is pertinent to mention that Panipat Thermal Power Station (PTPS), Panipat (Unit-6 to 8), having ball & tube milling system, was not considered at first instance for co-firing of biomass pellets, however, HPGCL explored possibility of using of biomass pellets at its other plants i.e. DCRTPP Yamunanagar and RGTPP Hisar (having bowl mills). About 550 MT of torrefied biomass pellets were consumed at DCRTPP Yamunanagar and RGTPP Hisar in the months of June, 2021 to January, 2022 on trial basis.
3. Meanwhile, HPGCL approached the Hon'ble HERC for suitable framework for recovery of the tariff considering the impact of use of biomass pellets. Hon'ble HERC vide order dated 19.07.2022 (**Annexure-I**) directed as under:-
 - To carry out a detailed analysis on the financial as well as technical parameters through an independent agency.
 - To procure the biomass pellets from Haryana and manufacturer should also be of Haryana.
 - Use biomass pellets after getting the consent/approval of OEM, specific to its plants.

4. Accordingly, Letter of Intent was issued to BHEL on 05.08.2022 to carry out the feasibility study for implementing the policy of biomass co-firing with coal in PTPS Units having ball & tube milling system. BHEL submitted feasibility study report (dated 19.10.2022), wherein preliminary consent has been accorded for conducting the trial study of co-firing of torrefied biomass pellets with coal, maximum up to 5% (Annexure-II).
5. Parallely, in view of the revised Biomass Policy dated 08.10.2021 and Model Contract dated 02.03.2022 issued by MoP, GoI, HPGCL issued e-NIT on 29.03.2022 for procurement of 19.3 lakh MT Torrefied Biomass Pellets for its all TPS for a period of seven (7) years. The procurement quantity was calculated (@ 5% blending) on the basis of last three years (2018-19 to 2020-21) coal consumption of HPGCL TPS and details of requirement of PTPS Panipat are as under:-

Plant Load Factor (%)			Average of Coal Consumed (2018-19 to 2020-21) MT	Annual Biomass Pellets Requirement @5% of Coal Consumed MT
2018-19	2019-20	2020-21		
41.93	24.41	19.59	1427629	71381
Note:- If more PLF is achieved in forth coming years then additional quantity of biomass pellets would be purchased by HPGCL.				

6. Price bid was opened on 01.08.2022 and M/s Beyond Drilling and Exploration Private Limited, Faridabad emerged as L-1 bidder. An agenda was placed before High Powered Purchase Committee under the Chairmanship of Hon'ble CM Haryana in its meeting held on 10.10.2022. After detailed deliberation, Hon'ble CM Haryana directed indenting department to frame modalities after discussions with Agriculture & Farmers Welfare Department as well as firms, for making payments of paddy straw to farmers directly through Govt. of Haryana (Agriculture & Farmers Welfare Department) portal.
7. Accordingly, Agriculture & Farmers Welfare Department, Haryana developed the Portal agriharyana.gov.in on 25.11.2022 and Haryana Renewable Energy Development Agency allocated service areas for procurement of paddy straw by or on behalf of the Thermal Power Stations in the State on 02.01.2023 (Annexure-III).
8. Thereafter, High Powered Purchase Committee under the Chairmanship of Hon'ble CM Haryana accorded approval for award of Purchase Order for procurement of 19.3 Lakh MT Torrefied Biomass Pellets for a period of 07 years to M/s Beyond Drilling and Exploration Private Limited, Faridabad.

9. Purchase Order was issued to Firm on 10.05.2023 and as per Purchase Order, the Firm has to commence supplies after 270 days from the date of issuance of PO/LOI. Accordingly, Firm has purchased/ blocked around 1.5 Lakh ton of Paddy straw through their aggregators and is setting up Biomass Pellet Manufacturing Plants at Barwala (Hisar), Sonipat and Yamunanagar. Firm has informed that they shall commence supplies from March, 2024 onwards from their plants.
10. Meanwhile, PTPS, HPGCL Panipat has also invited short term e-tender on 06.04.2023 for purchase of 450 MT torrefied Biomass Pellets for feasibility study at PTPS, Panipat. Last dates for submission of tender and tender opening stand extended upto 01.04.2024 & 05.04.2024 respectively due to non-participation in the tender.

It is not out of place to mention that HPGCL is a law abiding Public Sector Undertaking of Govt. of Haryana and is committed to provide clean energy and all out efforts are being made to comply with CAQM/CPCB/HSPCB guidelines/directives. Thus process for achieving the co-firing of biomass pellets with coal has already been initiated, PTPS HPGCL endeavors to achieve co-firing of biomass pellets with coal upto 5% at its Plants in the FY 2024-25 under this Important green Initiative for mitigation of stubble burning as per the guidelines / directions of the Ministry of Power/Gol & CAQM.

In view of position explained above, the Hon'ble Commission (CAQM) is humbly requested that the subject cited notice may kindly be dropped, please.


Chief Engineer/PTPS,
HPGCL, Panipat.

4213



राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्र
वायु गुणवत्ता प्रबंधन आयोग
Commission for Air Quality Management in
National Capital Region and
Adjoining Areas



F. No. 120015/25/TPP/2021/CAQM-11099-1203

Dated: 3rd June' 2024

To,

Shri Piyush Singh,
The Joint Secretary,
Ministry of Power, Government of India,
Shram Shakti Bhawan, Rafi Marg,
New Delhi-110001

Subject: Actions towards further augmentation of co-firing and to ensure robust supply chain for compliance of Direction No.-42 and Environment (Utilisation of Crop residue by Thermal Power Plants) Rules, 2023- reg.

Sir,

Due to consistent non-compliance of Commission's Direction No.-42 by certain TPPs, lag to achieve the target of 2022, 2023 and to access ground situation, a High-Level team consisting of CAQM, MoP/CEA and SAMARTH visited 10 TPPs out of 11 located within 300 Km of Delhi.

2. During review, it appeared that out of 10 identified Power Plants of Haryana, Punjab & UP, co-firing has been scaled up in 6 plants (2 in Punjab; 3 in Haryana; and 1 in UP). In rest 4 power plants the co-firing status is critically low (2 in Punjab; and 2 in Haryana) against the co-firing targets for 2024, which requires intensive monitoring by MoP/SAMARTH/CAQM and state agencies, so that the entity can achieve their annual target of co-firing.

3. It has also been noted in the recent months that despite availability of torrefied/ non-torrefied pellets and subsequent augmentation of co-firing a strong need has been felt to ensure consistent robust supply chain mechanism for securing desired quantity biomass for consistent firing throughout the year to achieve the annual target and to achieve 'zero' open burning incidents with special emphasis in Punjab and Haryana. To achieve the goal intensive meetings between stakeholders' viz. 11 TPPs, pellet manufacturers, suppliers, farmers, State/ Central Agencies with specific agenda must be scheduled in Punjab, Haryana and Uttar Pradesh till the end of 2024 to cover entire **'Bailing to Pelleting and co-firing Paddy straw Supply chain'**, to scale up production, utilization and capacity potential of torrefied & non-torrefied pellet manufacturers/ suppliers to TPPs.

4. Moreover, immediate implementation and consistent scaling up of co-firing of torrefied and non-torrefied in OEM mandated boilers viz. HPGCL, JPL etc. is required in consultation with BHEL/ NTPC/FTL.

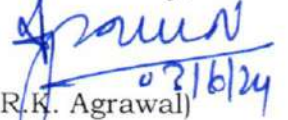
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5. In view of above and for timely implementation of Environment (Utilisation of Crop residue by Thermal Power Plants) Rules, 2023 w.e.f. due date, following actions needs to be taken immediately:

- A. Fostering of co-firing rate in 4 power plants (2 in Punjab and 2 in Haryana) where co-firing is at critically low level and is far behind the annual targets of 2024 and / or 2024-2025, through intensive monitoring.
- B. Immediate review of implementation status and consistent scaling up of co-firing of torrefied and non-torrefied in OEM mandated boilers viz. HPGCL, JPL etc., in consultation with BHEL/ NTPC/FTL.
- C. Schedule intensive monthly meetings till 2024-25 with TPPs, pellet suppliers, farmers and other State/ Central agency stakeholders in Punjab, Haryana and Uttar Pradesh covering the entire **'Bailing to Pelleting and co-firing Paddy straw Supply chain'**, to scale up production, utilization and capacity potential of torrefied & non-torrefied pellet manufacturers/ suppliers to TPPs. Please share meetings schedule with CAQM.

Yours faithfully,


03/06/24

(R.K. Agrawal)

Director, CAQM

rk.agrawal69@gov.in

Copy to:

1. Shri Satish Upadhyaya
The Mission Director,
SAMARTH Mission (NBM in Thermal Power Plants)
E-3, Main Market Rd, Ecotech-II, Udyog Vihar,

Copy also to SPCBs for information:

2. The Member Secretary,
Punjab Pollution Control Board,
Vatavaran Bhawan, Nabha Road, Patiala
3. The Member Secretary,
Haryana State Pollution Control Board,
C-11, Sector-6. Panchkula-134109,
Haryana.
4. The Member Secretary,
Uttar Pradesh Pollution Control Board,
Building.No. TC-12V Vibhuti Khand, Gomti
Nagar Lucknow-226 010.

17 वी मंजिल, जवाहर व्यापार भवन (एस. टी.सी. बिल्डिंग), टॉलस्टॉय मार्ग, नई दिल्ली-110001

दूरभाष : 011-23701213, ई-मेल : caqm-ncr@gov.in

17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg, New Delhi-110001

Tel:011-23701213, E-mail: caqm-ncr@gov.in

Actions towards further augmentation of co-firing and to ensure robust supply chain for compliance fo Direction No.42 and Environment (Utilisation of Crop residue by Thermal Powwer Plants) Rules, 2023 - reg.

From : CAQM NCR <caqm-ncr@gov.in>

Mon, Jun 03, 2024 04:14 PM

Subject : Actions towards further augmentation of co-firing and to ensure robust supply chain for compliance fo Direction No.42 and Environment (Utilisation of Crop residue by Thermal Powwer Plants) Rules, 2023 - reg.

1 attachment

To : singhp7 <singhp7@nic.in>

Cc : Satish Upadhyay <supadhyay@ntpc.co.in>, msppcb <msppcb@gmail.com>, hspcbms <hspcbms@gmail.com>, ms <ms@uppcb.in>, RAM KUMAR AGRAWAL <rk.agrawal69@gov.in>, Gyanendra Kr. Yadav <gyanendra90.fci@gov.in>

Sir,

Please find attached herewith a letter on the subject cited above for necessary action.

With regards,

Director, CAQM
New Delhi

महोदय,

उपरोक्त विषय में पत्र आपकी आवश्यक कार्रवाई हेतु संलग्न है।

सादर,

निदेशक
सी ए क्यू एम
नई दिल्ली

— co-firing.pdf
1 MB



राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्र
वायु गुणवत्ता प्रबंधन आयोग
Commission for Air Quality Management in
National Capital Region and
Adjoining Areas



F. No. 120015/25/TPP/2021/CAQM/ Vol.VI/972 DT Dated 24.07.2024

To,

Shri Satish Upadhyaya
The Mission Director,
SAMARTH Mission (NBM in Thermal Power Plants)
E-3, Main Market Rd, Ecotech-II, Udyog Vihar,

Subject: Intensive meeting schedule with stakeholders in NCR - TPPs located within 300 Km Delhi for biomass co-firing target recovery

Ref: Mission SAMARTH letter No. NBM/MD/24-25/07/32 dated 10.07.2024

Sir,

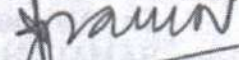
The Commission is in receipt of letter from SAMARTH mentioned under reference requesting CAQM to intimate to the respective TPPs and other concerned for attending the meetings.

2. It is to mention that to address the concern of worsening air quality of Delhi-NCR specially during the winter months due to stubble burning and to mitigate the effect of such a contributory source, the Commission had issued Direction No. 42 dated 17.09.2021 and Advisory No. 11 dated 30.08.2023 mandating regular co-firing of stubble replacing 5-10 % coal, in 11 TPPs located within 300 Km of Delhi. The Commission has also been regularly reviewing the status of co-firing of biomass in TPPs through monthly meetings with TPPs/ MOP and concerned agencies of the States etc. for the compliance of the aforesaid direction by TPPs.
3. The matter was also discussed in different meetings chaired by the Cabinet Secretary wherein Power Ministry was asked to ensure utilization of straw pellets by TPPs. Starting January till June 2024, so far the progress of co-firing of biomass in TPPs (barring TPPs in the states of Haryana & Punjab) has been satisfactory though a lot is still to be done to achieve the target of 5% co-firing of biomass replacing coal in TPPs.

:2:

4. It is advised that Ministry of Power/ SAMARTH may fix such regular meetings with TPPs, agencies/ departments concerned including different stakeholders like paddy supply chain status aggregators and pellet manufacturers in coordination with States concerned to ensure adequate co-firing of Biomass by concerned TPPs and communicate to CAQM so as to ensure participation from the Commission.

Yours faithfully,



(R.K. Agrawal)

Director, CAQM

rk.agrawal69@gov.in

011-23446806

Copy to:

Shri Piyush Singh,
The Joint Secretary, MoP, Govt. of India,
Shram Shakti Bhawan, Rafi Marg,
New Delhi-110001

Email

Intensive Meeting schedule with stakeholders in NCR - TPPs located within 300 kms Delhi for biomass co-firing target recovery reg.

From : CAQM NCR <caqm-ncr@gov.in> Wed, Jul 24, 2024 04:43 PM
Subject : Intensive Meeting schedule with stakeholders in NCR - TPPs located within 300 kms Delhi for biomass co-firing target recovery reg. 1 attachment
To : satishupadhyay161 <satishupadhyay161@gmail.com>, Satish Upadhyay <supadhyay@ntpc.co.in>, RAM KUMAR AGRAWAL <rk.agrawal69@gov.in>, Gyanendra Kr. Yadav <gyanendra90.fci@gov.in>, soumya caqm <soumya.caqm@gmail.com>
Cc : singhp7 <singhp7@nic.in>

महोदय,

उपरोक्त विषय पर 24 July, 2024 के वायु गुणवत्ता प्रबंधन आयोग के पत्र की प्रति आपकी जानकारी एवं आवश्यक कार्रवाई के लिए संलग्न है।

सादर,

निदेशक, सीएक्यूएम,
पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय,
भारत सरकार, नई दिल्ली

 **972 DT Intensive Meeting TPP Dir SAMRATH 24072024.pdf**
416 KB



राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्र
वायु गुणवत्ता प्रबंधन आयोग
Commission for Air Quality Management in
National Capital Region and
Adjoining Areas



F. No. 120015/25/TPP/2021/CAQM/1402-1428

दिनांक: 24th अक्टूबर, 2024

बैठक का कार्यवृत्त /
Minutes of Meeting

Subject: Review meeting w.r.t. preparedness to comply with Commission's Direction No.-42 w.r.t. co-firing of biomass/ biomass pellets in 11 TPPs located within 300 Km of Delhi - reg.

उपरोक्त विषय पर वायु गुणवत्ता प्रबंधन आयोग के अध्यक्ष, श्री राजेश वर्मा की अध्यक्षता में दिनांक 21.10.2024 को आयोजित बैठक का कार्यवृत्त सूचना संलग्न है।

The minutes of meeting held on 21.10.2024 under the Chairmanship of Shri Rajesh Verma, the Chairperson, of the Commission for Air Quality Management, on the above subject is enclosed herewith.

संलग्न: उपरिउक्त


(अ. के. अग्रवाल)
निदेशक (तकनीकी)

सेवा में:

1. The Additional Secretary, MoEFCC, GoI, asnpg.mefcc@gov.in
2. The Additional Secretary, Ministry of New & Renewable Energy, as-mnre@gov.in
3. The Joint Secretary, Ministry of Power, Government of India, singhp7@nic.in
4. The Mission Director, SAMARTH md-biomass-power@gov.in
5. The Member Secretary, Central Pollution Control Board, Delhi, mascb.cpcb@nic.in
6. The Chairman & Managing Director, NTPC cmd@ntpc.co.in
7. The Chairman cum Managing Director, Punjab State Power Corporation Ltd, Govt. of Punjab cmd-pspcl@pspcl.in
8. The Managing Director, Haryana Power Generation Corporation Ltd. Govt. of Haryana, md@hpgcl.org.in
9. The Chief Executive, Punjab Energy Development Agency, ceo@peda.gov.in, mpsingh@peda.gov.in
10. The Director General, HAREDA, hareda-chd@nic.in
11. The Managing Director, UPRUVNL, md@uprvnl.org

Contd./

17 वी मंजिल, जवाहर व्यापार भवन (एस. टी.सी. बिल्डिंग), टॉलस्टॉय मार्ग, नई दिल्ली-110001

दूरभाष : 011-23701213, ई-मेल : caqm-ncr@gov.in

17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg, New Delhi-110001

Tel:011-23701213, E-mail: caqm-ncr@gov.in

:2:-

12. Power Plants of NCR within 300 Km of Delhi:

- (i). Chief General Manager, National Capital Dadri Thermal Power Plant, NTPC, Dadri, (srbodanki@ntpc.co.in, brahmajig@ntpc.co.in)
- (ii). Chief Executive Officer, Indira Gandhi Super Thermal Power Project, NTPC JV, Jhajjar, (hopjhajjar@ntpc.co.in)
- (iii). Managing Director, Mahatma Gandhi TPS, CLP Jhajjar' Haryana. (bhaskar.bhattacharjee@apraava.com, rajan.tiwari@apraava.com)
- (iv). Managing Director, Panipat TPS, HPGCL, Panipat, Haryana, (cepts@hpgcl.org.in)
- (v). Managing Director, Rajiv Gandhi TPS, Hisar, HPGCL, Haryana, (cergtpp@hpgcl.org.in)
- (vi). Managing Director, Deenbandhu Chhoturam TPS, Yamunanagar, HPGCL, Haryana, (cedertpp@hpgcl.org.in)
- (vii). Managing Director, Guru Hargobind TPS, PSPCL, Punjab, (ceghtp@pspcl.in)
- (viii). Managing Director, Guru Gobind Singh TPS, PSPCL, Punjab (cegsstp@pspcl.in)
- (ix). Managing Director, Nabha Power Ltd, Rajpura TPS, L&T, Punjab (sk.narang@larsentoubro.com, saurabh.patel@larsentoubro.com)
- (x). Managing Director, Talwandi Sabo TPS, Mansa, Vedanta, Punjab (Pankaj.sharma@vedanta.co.in, Vikas.S@vedanta.co.in)
- (xi). Managing Director, Harduaganj TPS, UPRVUNL, Uttar Pradesh (md@uprvunl.org, director.project@uprvunl.org)

Copy to:-

- (i). PS to the Chairperson, CAQM.
- (ii). the all Member (Technical), CAQM.
- (iii). the Member (SKB), CAQM.
- (iv). the Member Secretary, CAQM.
- (v). the Director-Technical (CAQM)

Review meeting w.r.t. preparedness to comply with Commission's Direction No.-42 w.r.t. co-firing of biomass/ biomass pellets in 11 TPPs located within 300 Km of Delhi - reg.

A meeting on the above subject was held on 21.10.2024 under Chairmanship of Shri Rajesh Verma, the Chairperson, CAQM, on 21st October 2024 at 11 A.M. in "SAMEER" Conference Hall at 17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg, New Delhi, in physical mode/ combined mode. The list of participants is **annexed**.

2. The Member, CAQM welcomed the participants, followed by brief introduction by all the participants. After which a brief presentation was given by the Member CAQM on genesis of the Direction No.-42 and various Advisories of the Commission on the above subject matter including various initiatives by MoP for facilitation of compliance; compliance progress of co-firing till September, 2024; Challenges, way forward and agenda for today's meeting.

3. He briefed about the objectives of the meeting w.r.t. actions required to be taken to achieve the gap of co-firing, as the time line for imposition of Environmental Compensation for the period of 2024-25 is approaching, while flagging the concerns due to poor performances by three (03) plants of HPGCL namely RGTPS-Hissar, DCRTTP-Yamunanagar & PTPS-Panipat; and one plants of Punjab namely TSPL - Vedanta, to those notice u/s 14 has already been served in February, 2024.

4. It was followed by a presentation by Mission Director, SAMARTH who apprised the updated progress status on co-firing in 11 TPPs during FY 2024-25 till 15.10.2024 based on average coal consumption during 2021-24; and accordingly discussion on plant wise recovery target of co-firing for the due periods of 2024-25 was carried out. The highlights of the SAMARTH-Mission presentation is as follows:

- A. Till 15.10.2024, only 5.31 Lakh MT (LMT) biomass pellets was co-fired by identified 11 TPPs during FY 2024-25, against projected requirement of 22.64 Lakh MT (LMT) in 2024-25 for co-firing up to 5%.
- B. It was emphasized that to achieve the compliance w.r.t. co-firing up to 3 % between October to March, 2024-25, three times increase in co-firing is required to be achieved by the 11 TPPs altogether compared to biomass pellets co-fired during April to September, 2024-25. Moreover, it is highlighted that a major portion of due amount of pellets co-firing fall under 9 TPPs, other than two plants of NTPC.

C. The plant wise brief status of co-firing and issues presented by SAMARTH as follows:

S.N.	TPPs	Biomass pellet Consumed/ consumption During 2024-25 (in Lakh MT)		Issue	Remarks/ Comments
		April to September	Oct to Dec		
i	HPGCL - PTPS;	0.073	0.75	- Falling short to meet the target - Shortage of supply and single point supply in three plants. - Already highlighted to HPGCL authorities.	Director (T) HPGCL: supply are gradually augmenting and each of the three plants will co-fire at least 3 % pellets by end of 2024-25 FY.
	HPGCL - RGTPS;	0.281	0.72		
	HPGCL - DCRTTP	0.063	0.74		
ii	TSPL	0.0012	2.187	- Torrified pellets availability in NCR is about 31%. - Recovery targets for TSPL-Vedanta is worrisome and longtime has been passed.	Unit could have focused on the setting up of own torrefied pellets plants long back to avoid the situation.
iii	NPL-L&T	0.309	1.44	- The recovery progress in NPL-L&T, Rajpura is quite well. - Needs consistency in co-firing with continuous higher targets.	NPL informed, they will achieve the targets and requested PSPCL to look into the fuel related issues as per adopted policy/ agreement.
iv	Harduaganj	0.301	0.401	Upon recovery progress of co-firing, UPRVUNL-Harduaganj informed that from dependency on single/ limited vendor/ supplier, unit is switching to multiple supplier/ manufacturer.	Will be compliant with the directives within time.
v	PSPCL-Ropar	0.213	0.496	- The recovery progress in PSPCL-Ropar & Lehra Mohabbat are quite well. - Needs consistency in co-firing with continuous higher targets.	The representative of TPPs assured that they will achieve the targets.
	PSPCL-Lehra	0.299	0.429		
vi	NTPC Dadri	1.13	1.41	The recovery progress in NTPC Dadri & APCPL plant and Apravva-Jhajjar are quite well.	The three (03) TPPs assured that they will continue the progress on co-firing mandates.
	APCPL-Jhajjar;	1.12	1.36		
	Apravva-Jhajjar	0.972	1.31		

5. After the detailed discussions on each plant and issues involved, the Chairperson, CAQM mentioned that after issuance of the Direction No.-42 long time has passed and the Commission from time to time has flagged the issues

before the State and TPPs. Therefore resolution of the supply chain issues as well as augmentation of manufacturing capacity of the biomass pellets should have been dealt by the State authorities long back. As the Schedule for Environmental Compensation has already been notified and Notices under Section – 14 of the Act, have already been served to a few of the consistent poor performers, therefore State and TPP Authorities should focus to comply with the directives in a time bound manner in letter and spirit else coercive action will be initiated by CAQM .

6. The Chairperson further enquired on the funding mechanism of MNRE & CPCB for pellet manufacturing facilities and emphasized that there should be convergence/ synchronization between the two funding mechanisms. MNRE replied that their Scheme was developed based on PAN India requirements, whereas CPCB replied that their scheme is prepared only for pellet plants located in NCR and fund has been provided from EPC. CPCB informed that so far it has funded only two (02) torrefied pellet plants in Punjab.

7. In view of the mandates of the Direction No.-42, as well as notices served to four (04) TPPs for consistent poor performance and the status of co-firing in 11 TPPs w.r.t. concerns of stubble management, the Chairperson concluded the meeting as follows:

- A. MoP will ensure issuance of (i) 'Benchmark price' for torrefied pellets at the earliest and (ii) will co-ordinate with MNRE & CPCB on convergence of their funding programme for the augmentation of pellet manufacturing capacity, where funding from CPCB may act as top up subsidy/gap funding. **[Action: MoP/SAMARTH]**
- B. State of Haryana and Punjab shall monitor and resolve the issues, if any immediately, which may have any bearing on the availability of paddy straw for the TPPs in their respective state. The fuel supply issues of PSPCL and sourcing of paddy by the TPPs of Haryana may be appropriately addressed by the State Authorities without any further delay. **[Action: HAREDA, PEDDA, SAMARTH]**
- C. TPPs and SAMARTH should endeavor to comply with benchmark price given by MoP, in case the State has not notified their own benchmark price. In any case supply chain has to be maintained in a manner that farmers get remunerative price for the paddy stubble. **[Action: TPPs, SAMARTH]**
- D. Concerted efforts of all stakeholders, including 11 TPPs within 300 Km of Delhi shall ensure compliance of Direction No.-42 and 11 TPPs must qualify the criteria/ schedule of co-firing notified by MoEFCC on 18.07.2023 to avoid Environmental Compensation. **[Action: TPPs]**
- E. Non-compliance of directives shall attract coercive action as per rules/regulations which may include prosecution u/s 14 of the CAQM Act, 2021. **[Action: CAQM]**

8 Meeting ended with a vote of Thanks to the Chair.

List of Attendees

CAQM

1. Shri Rajesh Verma, Chairperson, CAQM
2. Dr. N. P. Shukla, Member-Technical, CAQM
3. Dr. S. D. Attri, Member-Technical, CAQM
4. Dr. Sujit Kumar Bajpayee, Member, CAQM
5. Shri Arvind Nautiyal, Member-Secretary, CAQM
6. Shri R. K. Agrawal, Director, CAQM
7. Dr. Soumya Chatterjee, Senior Consultant, CAQM

Ministry of Power, Govt. of India

8. Shri Piyush Singh, Joint-Secretary

Central Electricity Authority (CEA)

9. Shri T. Venkateshwarlu, Chief Engineer

SAMARTH

10. Shri Satish Upadhyay, Mission Director – SAMARTH & ED – NTPC
11. Mohd. Nizamuddin, Additional General Manager (Biomass)- NTPC
12. Shri Prakhar Malviya, Senior Manager/Biomass **(VC)**
13. Shri S. K. Arjaria, Senior General Manager/DVC **(VC)**

Ministry of Environment Forest and Climate Change, Govt. of India

14. Shri Mukesh Balodhi, Scientist – E

Ministry of New & Renewable Energy, Govt. of India

15. Shri S. K. Shahi, Scientist E

Central Pollution Control Board (CPCB)

16. Mohd. Naziumuddin, Scientist F

National Thermal Power Corporation (NTPC)

17. Shri K. C. Muraleedharan, Head of Project - Dadri
18. Shri S. P. S. Virk, Chief General Manager
19. Shri Sanjay Singh, Senior Manager, APCPL – Jhajjar
20. Shri Joyotosh Kumar Dey, General Manager (FM), APCPL - Jhajjar
21. Shri N. N. Sinha, General Manager (Fuel Management), NTPC – Dadri

Punjab Energy Development Agency (PEDA)

22. Shri M. P. Singh, Director

Haryana Renewable Energy Development Agency (HAREDA)

23. Not attended/ No representative.

Uttar Pradesh Pollution Control Board (UPPCB)

24. Shri D. K. Gupta, Regional Officer – Greater Noida

Other Thermal Power Plants:

25. Shri Atul Kumar, Chief General Manager (Harduaganj TPS) – UPRVUNL
26. Shri Sushil Singh, Superintending Engineer (Harduaganj TPS) – UPRVUNL
27. Shri Harish Kumar Sharma, Chief Engineer, (GGSSTP) Ropar, PSPCL
28. Shri Jasvinder Singh, Deputy Chief Engineer, (GHTP) Lehra Mohabbat – PSPCL **(VC)**
29. Shri Anil Kumar Kalsi, Superintending Engineer, (GGSSTP) Ropar, PSPCL
30. Shri R. K. Verma, Director Technical, (HPGCL) Panchkula – **(VC)**
31. Shri S. P. Arya, Executive Engineer/Fuel (RGTPP) Hisar, HPGCL
32. Shri Naresh Kumar Kamboj, Superintending Engineer (Fuel Division) DCRTTP, Yamuna Nagar, HPGCL **(VC)**
33. Shri V. K. Singh, Executive Engineer (Fuel) DCRTTP, Yamuna Nagar, HPGCL

34. Shri Mrinal Jaiswal, Assistant Executive Engineer (Fuel) DCRTTP, Yamuna Nagar, HPGCL **(VC)**
35. Shri Naresh Kumar Rana, Executive Engineer/Fuel (PTPS), Panipat - HPGCL
36. Shri K. Prasanna Rao, Vice President (O&M), (JPL)- Apraava Energy
37. Shri Aananth R. M., General Manager (C&E), (JPL) - Apraava Energy
38. Shri Pulkit Khurana, Manager (Commercial), Nabha Power Ltd. - **(VC)**
39. Shri Jitendra Upadhyay, General Manager (Fuel), Nabha Power Ltd.
40. Shri Saurabh Patel, Assistant General Manager, Nabha Power Ltd. **(VC)**
41. Shri Vikas Sharma, Head Business Strategy (TSPL), Vedanta - **(VC)**
42. Shri Himanshu Agarwal, Director Regulatory (TSPL), Vedanta
43. Executive Director, TPS - Yamuna Nagar **(VC)**

**Review meeting w.r.t. preparedness to comply with Commission's Direction No.-42
w.r.t. co-firing of biomass/ biomass pellets in 11 TPPs located within 300 Km of Delhi
- reg.**

ME

Me <caqm-ncr@gov.in>

Thu, 24 Oct 2024 6:31:53 PM +0530

To "Mr Naresh Gangwar" <asnpg.mefcc@gov.in>, "Sudeep Jain" <as-mnre@gov.in>, "singhp7" <singhp7@nic.in>, "National Mission" <md-biomass-power@gov.in>, "Member CPCB" <mscb.cpcb@nic.in>, "cmd" <cmd@ntpc.co.in>, "cmd-pspcl" <cmd-pspcl@pspcl.in>, "Mohammad Shayin" <md@hpgcl.org.in>, "mpsingh" <mpsingh@peda.gov.in>, "New" <hareda-chd@nic.in>, "md" <md@uprvunl.org>, "SR Bodanki" <srbodanki@ntpc.co.in>, "Brahmaji G" <brahmajig@ntpc.co.in>, "HoP Jhajjar" <hopjhajjar@ntpc.co.in>, "bhaskar bhattacharjee" <bhaskar.bhattacharjee@apraava.com>, "rajan tiwari" <rajan.tiwari@apraava.com>, "S L SACHDEVA" <cepts@hpgcl.org.in>, "D L Rohila" <cergtpp@hpgcl.org.in>, "S K Sachdeva" <cedcrtp@hpgcl.org.in>, "ce-ghttp" <ce-ghttp@pspcl.in>, "ce-ggsstp" <ce-ggsstp@pspcl.in>, "SK Narang" <sk.narang@larsentoubro.com>, "saurabh patel" <saurabh.patel@larsentoubro.com>, "Pankaj sharma" <pankaj.sharma@vedanta.co.in>, "vikas" <vikas.s@vedanta.co.in>, "director project" <director.project@uprvunl.org>

Cc "Ravi Prakash" <ravi.kaushik7@gov.in>, "Dr Narmada Prasad Shukla" <narmada.shukla55@gov.in>, "S D ATTRI" <sd.attri@imd.gov.in>, "Dr Virinder Sharma" <virinder.sharma@gov.in>, "Sujit Kumar Bajpayee" <sujit.baju@gov.in>, "ARVIND KUMAR NAUTIYAL" <arvind.nautiyal@gov.in>, "RAM AGRAWAL" <rk.agrawal69@gov.in>, "soumya caqm" <soumya.caqm@gmail.com>

महोदय/ महोदया,

उपरोक्त विषय पर वायु गुणवत्ता प्रबंधन आयोग की 21 अक्टूबर, 2024 को आयोजित बैठक के कार्यवृत्त की प्रति आपकी जानकारी एवं आवश्यक कार्रवाई के लिए संलग्न है।

निदेशक, सीएक्यूएम,
पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय,
भारत सरकार, नई दिल्ली

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876.7 KB •

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राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्र
वायु गुणवत्ता प्रबंधन आयोग
Commission for Air Quality Management in
National Capital Region and
Adjoining Areas



F. No. 120015/25/TPP/2021/CAQM 158-178

दिनांक: 3rd फरवरी, 2024

बैठक का कार्यवृत्त /
Minutes of Meeting

Subject Review meeting w.r.t. the status of compliance Commission's Direction No.-42 mandates co-firing of biomass/ biomass pellets in 11 TPPs located within 300 Km of Delhi - reg.

उपरोक्त विषय पर वायु गुणवत्ता प्रबंधन आयोग के सदस्य तकनीकी डॉ. विरिंदर शर्मा की अध्यक्षता में दिनांक 22.01.2025 को आयोजित बैठक का कार्यवृत्त सूचना संलग्न है।

The minutes of meeting held on 22.01.2025 under the Chairmanship of Dr. Virinder Sharma, Member Technical, Commission for Air Quality Management, on the above subject is enclosed herewith.

संलग्न: उपरिउक्त

R.P. Lurung
(आर. पी. गुरुंग) 3/2/25
Sc. 'E'

सेवा में:

1. The Additional Secretary, MoEFCC, GoI, asnpg.mefcc@gov.in
2. The Additional Secretary, Ministry of New & Renewable Energy, as-mnre@gov.in
3. The Joint Secretary, Ministry of Power, Government of India, singhp7@nic.in
4. The Mission Director, SAMARTH md-biomass-power@gov.in
5. The Member Secretary, Central Pollution Control Board, Delhi, mascb.cpcb@nic.in
6. Power Plants of NCR within 300 Km of Delhi:
 - (i). Chief General Manager, National Capital Dadri Thermal Power Plant, NTPC, Dadri, srbodanki@ntpc.co.in, brahmajig@ntpc.co.in
 - (ii). Chief Executive Officer, Indira Gandhi Super Thermal Power Project, NTPC JV, Jhajjar, hopjhajjar@ntpc.co.in
 - (iii). Managing Director, Mahatma Gandhi TPS, CLP Jhajjar' Haryana. bhaskar.bhattacharjee@apraava.com, rajan.tiwari@apraava.com
 - (iv). Managing Director, Panipat TPS, HPGCL, Panipat, Haryana, cepts@hpgcl.org.in

Contd./

- (v). Managing Director, Rajiv Gandhi TPS, Hisar, HPGCL, Haryana, (cergtpp@hpgcl.org.in)
- (vi). Managing Director, Deenbandhu Chhoturam TPS, Yamunanagar, HPGCL, Haryana, (cedcrtp@hpgcl.org.in)
- (vii). Managing Director, Guru Hargobind TPS, PSPCL, Punjab, (ceghtp@pspcl.in)
- (viii). Managing Director, Guru Gobind Singh TPS, PSPCL, Punjab (cegsstp@pspcl.in)
- (ix). Managing Director, Nabha Power Ltd, Rajpura TPS, L&T, Punjab (sk.narang@larsentoubro.com, saurabh.patel@larsentoubro.com)
- (x). Managing Director, Talwandi Sabo TPS, Mansa, Vedanta, Punjab (Pankaj.sharma@vedanta.co.in, Vikas.S@vedanta.co.in)
- (xi). Managing Director, Harduaganj TPS, UPRVUNL, Uttar Pradesh (md@uprvunl.org, director.project@uprvunl.org)

Copy to:-

- (i). PS to the Chairperson, CAQM.
- (ii). the Member (Technical) (Dr. V.S.), CAQM.
- (iii). the Member Secretary, CAQM.
- (iv). the Director-Technical, CAQM
- (v). Sh. R. P. Gurung, Sc.'E', CAQM

Minutes of Review meeting w.r.t. the status of compliance on Commission's Direction No.-42 mandate for co-firing of biomass/ biomass pellets in 11 TPPs located within 300 Km of Delhi.

A meeting on the above subject was held on 22.01.2025 under Chairmanship of Dr. Virinder Sharma, Member (Technical), CAQM, on 22nd January 2025 in hybrid mode. The list of participants is **annexed**.

2. After brief introduction, a presentation was made by Mission Director, SAMARTH who apprised the progress status of co-firing in 11 TPPs during FY 2024-25 till 15.01.2025 based on average coal consumption and/ or electricity generation. The highlights of the SAMARTH-Mission presentation are as follows:

- A. Till 15.01.2025 of FY 2024-25, only 9.37 Lakh MT (LMT) biomass pellets was co-fired by identified 11 TPPs, against projected target of 22.64 Lakh MT (LMT) in 2024-25 for co-firing up to 5%.
- B. To achieve the compliance w.r.t. co-firing up to 3 % for the year 2024-2025, the cumulative biomass consumption by the 11 TPPs, during the period of Jan 2025 to March 2025 has to be increased by around 1.1 Lakh MT (LMT)/ month over the existing consumption rate about 1.95 % achieved during April to December, 2024. It was further highlighted that only two plants of NTPC and one plant i.e., Apravva-Jhajjar, have already achieved the targets of 3% co-firing of biomass.
- C. The plant wise brief status of co-firing and issues presented by SAMARTH is as follows:

S. N.	TPPs	Biomass consumed during April to Dec 2024 (Lakh MT)	Biomass to be consumed during Jan to Mar 2025 to achieve 3% co-firing (Lakh MT)	Issue	Remarks/ Comments
i	HPGCL - PTPS;	0.316	1.034	- Progress of DCRTTP in December 2024 is very poor. - All three units are unlikely to meet the target of 3% co-firing. Single point supply of pellets for all three TPPs is the main reason for the shortfall.	Authorities from HPGCL / Representatives from three plants of HPGCL was absent in the meeting.
	HPGCL - RGTPS;	0.592	1.068		
	HPGCL - DCRTTP	0.154	1.076		
ii	TSPL	0.058	3.582	- The unit is unlikely to meet the target of 3% co-firing - Rate of consumption of	No long-term tender/ contract has been placed. Also no progress

				biomass is extremely poor for TSPL-Vedanta.	on setting up of own torrefied pellet plants is reported.
iii	NPL-L&T	1.208	1.672	- The recovery progress in NPL-L&T, Rajpura is steady - Needs consistency in co-firing with continuous higher targets to comply.	NPL informed, they will achieve the targets. Fuel related issues as per adopted policy/ agreement with PSPCL has been sorted out.
iv	Harduaganj	0.377	1.222	UPRVUNL-Harduaganj informed that the dip in progress is due to weather impacted quality of the pellets, and delay in finalization of price of long/ short term tendering	Commitment was made regarding compliance of target in time
v	PSPCL-Ropar	0.501	0.598	- The recovery progress in PSPCL-Ropar & Lehra Mohabbat are quite well. - Needs consistency in co-firing with continuous higher targets to comply.	The representative of TPPs assured that they will achieve the targets.
	PSPCL-Lehra	0.461	0.678		
vi	NTPC Dadri	1.895	1.065	The recovery progress in NTPC Dadri & APCPL plant and Apravva-Jhajjar has been completed and needs consistency in co-firing with higher targets to comply.	The three (03) TPPs assured that they will continue the progress on co-firing mandates.
	APCPL-Jhajjar;	1.588	1.012		
	Apravva-Jhajjar	1.682	0.797		

4. All three plants of HPGCL had performance poorly in terms of co-firing of biomass. It was further noted that representative of all three units were absent from the meeting inspite of an official invitation. The Member (Technical), CAQM expressed concerns regarding their poor performance absence in this review meeting.

5. The Member (Technical) and Mission Director, SAMARTH appreciated Apravva-Jhajjar & NPL, L&T for their performance and they were invited to share their experiences. Both the TPPs informed that standardization of practices w.r.t. utilization of paddy straw based pellets is the key to success. However, Apravva-Jhajjar informed that in their TPP to comply with the target set for 2025-26 i.e. @5%, up-gradation of feeding system is required and matter has already been raised before CERC.

Member (Technical) remarked that compliance of the Commission's Directives by all the TPPs shall be in letter and spirit.

6. Member (Technical) enquired on the status of progress of actions taken by MoP/CEA/SAMARTH after review meeting held on 21.10.2024. MoP/ CEA has informed that

- A. Price Benchmarking of Torrified pellets has been completed on 18.11.2024 and renewal of prices w.r.t. non-torrified pellets has already been carried out on 03.10.2024.
- B. It was also informed that the review meeting with MNRE & CPCB regarding convergence of the funding programme for the augmentation of pellet manufacturing capacity in NCR area was held 29.10.2024. MoP further informed that following two criteria were concluded in the meeting for the development of proposal related to convergence of the funding of MNRE & CPCB on the matter vis-à-vis the Pellet manufacturers who have availed financial assistance from MNRE, may take additional financial assistance under CPCB scheme, if they meet the criteria specified by CPCB as envisaged:
 - (i) MNRE needs to remove the clause 3.9 from their guidelines of the CFA scheme. (As per clause 3.9 of the guidelines of the scheme, "Central financial assistance from any other Ministry or department of the Central Govt. should not be claimed for proposed plant for which application has been submitted to this Ministry")
 - (ii) CPCB needs to add a clause in their scheme for giving additional financial assistance to the pellet manufacturers, after they receive financial assistance from MNRE scheme.

MoP/SAMARTH also clarified that MoP guidelines provides utilization of minimum 50% of paddy straw and it can be anything above 50% as per CPCB criteria. The Member (Technical) highlighted that the clubbing of the Central Financial Assistance Grant with adoption of highest capping through top up subsidy/ gap funding from side of CPCB could lead to efficient utilization of fund:

7. In view of the mandates of the Direction No.-42, as well as earlier notices served to four (04) TPPs due to their consistently poor performance and after considering the status of co-firing in 11 TPPs w.r.t. concerns of stubble management, the Member (Technical) concluded the meeting as follows:

- A. Concerted efforts of all stakeholders, including the 11 TPPs within 300 km of Delhi shall be needed to ensure compliance of Direction No.-42. Further, the 11 TPPs must comply with the criteria/ schedule of co-firing notified by MoEFCC on 18.07.2023 to avoid Environmental Compensation.

B. Non-compliance of directives by the TPPs will attract coercive action as per rules/ regulations which may include prosecution u/s 14 of the CAQM Act, 2021.

8. Meeting ended with a vote of Thanks to the Chair.

Annexure

List of Attendees

CAQM

1. Dr. Virinder Sharma, Member (Technical), CAQM
2. Shri R. P. Gurung, Scientist – E, CAQM
3. Dr. Soumya Chatterjee, Senior Consultant, CAQM

Ministry of Power, , Govt. of India / Central Electricity Authority (CEA)

4. Shri T. Venkateshwarlu, Chief Engineer **(VC Mode)**
5. Shri Jitesh Shrivastava, Deputy Director
6. Shri Lucky Yadav, Assistant Director - II

Ministry of Environment Forest and Climate Change, Govt. of India

7. Shri Mukesh Balodhi, Scientist – E **(VC Mode)**

SAMARTH

8. Shri Satish Upadhyay, Mission Director – SAMARTH & ED – NTPC
9. Mohd. Nizamuddin, Additional General Manager (Biomass)- NTPC

Central Pollution Control Board (CPCB)

10. Mohd. Naziumuddin, Scientist F
11. Shri Ankush Tiwani, Sc.'E'

National Thermal Power Corporation (NTPC)

12. Shri Joyotosh Kumar Dey, General Manager (FM), APCPL - Jhajjar
13. Shri N. N. Sinha, General Manager (Fuel Management), NTPC – Dadri
14. Shri Guru Prasad Singh, General Manager (O&M), NTPC – Dadri

Other Thermal Power Plants:

15. Shri Atul Kumar, Chief General Manager (Harduaganj TPS) UPRVUNL
16. Shri Sushil Singh, Superintending Engineer/Coal (Harduaganj TPS) UPRVUNL
17. Shri Anil Kumar Kalsi, Deputy Chief Engineer, (GGSSTP) Ropar, PSPCL
18. Shri Barinderjit Singh Sohi, Superintending Engineer (GHTP) Lehra Mohabbat – PSPCL
19. Shri Bhaskar Bhattacharjee, Director, (JPL)- Apraava Energy
20. Shri Aananth R. M., General Manager C&E, (JPL) – Apraava Energy
21. Shri Rajan Tiwari, Manager/C&E, (JPL) – Apraava Energy
22. Shri Saurabh Patel, Assistant General Manager, Nabha Power Ltd.
23. Shri Tarun Jindal, Manager/Env. (TSPL), Vedanta
24. Shri Siddharth Ruhil, Associate Manager, (TSPL), Vedanta

Minutes of Review meeting - "The status of compliance Commission's Direction No. 42 mandates co-firing of biomass/ biomass pellets in 11 TPPs located within 300 Km of Delhi" - reg.

Me Me <caqm-ncr@gov.in>
Tue, 04 Feb 2025 11:51:01 AM +0530

To "Mr Naresh Gangwar" <asnpg.mefcc@gov.in>, "Sudeep Jain" <as-mnre@gov.in>, "singhp7" <singhp7@nic.in>, "National Mission" <md-biomass-power@gov.in>, "Member CPCB" <mccb.cpcb@nic.in>, "SR Bodanki" <srbodanki@ntpc.co.in>, "Brahmaji G" <brahmajig@ntpc.co.in>, "HoP Jhajjar" <hopjhajjar@ntpc.co.in>, "bhaskar bhattacharjee" <bhaskar.bhattacharjee@apraava.com>, "rajantiwari" <rajan.tiwari@apraava.com>, "S L SACHDEVA" <cepts@hpgcl.org.in>, "D L Rohila" <cergtpp@hpgcl.org.in>, "S K Sachdeva" <cedcrtp@hpgcl.org.in>, "ceghttp" <ceghttp@pspcl.in>, "ceggstp" <ceggstp@pspcl.in>, "SK Narang" <sk.narang@larsentoubro.com>, "saurabh patel" <saurabh.patel@larsentoubro.com>, "Pankaj sharma" <pankaj.sharma@vedanta.co.in>, "vikas" <vikas.s@vedanta.co.in>, "md" <md@uprvunl.org>, "director project" <director.project@uprvunl.org>

Cc "Ravi Prakash" <ravi.kaushik7@gov.in>, "ARVIND KUMAR NAUTIYAL" <arvind.nautiyal@gov.in>, "RAM AGRAWAL" <rk.agrawal69@gov.in>, "Ritesh Prasad Gurung" <rpgurung.cpcb@nic.in>, "soumya caqm" <soumya.caqm@gmail.com>

महोदय/ महोदया,

उपरोक्त विषय पर 3 February, 2025 के वायु गुणवत्ता प्रबंधन आयोग के पत्र की प्रति आपकी जानकारी एवं आवश्यक कार्रवाई के लिए संलग्न है।

सादर,

आर. पी. गुरुंग, वैज्ञानिक 'ई',
सीएक्यूएम,
पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय,
भारत सरकार, नई दिल्ली





राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
Commission for Air Quality Management in National Capital Region and Adjoining Areas



FILE NO. 120015/ 25/ TPP/ 2021/ CAQM 1270 DT

March 21, 2025

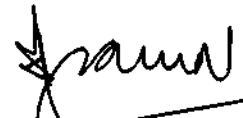
Order

Subject: Constitution of Committee for relaxation of Environmental Compensation in Accordance with the Environment (Utilization of Crop Residue by Thermal Power Plant) Rules, 2023

As per Rule 5 of the Environment (Utilization of Crop Residues by Thermal Power Plants) Rules, 2023, the Commission for Air Quality Management in National Capital Region and Adjoining Area may, on case to case basis, in consultation with the Central Electricity Authority and the Central Pollution Control Board, grant relaxation to thermal power plants on the Environmental Compensation imposed to them for non-utilization of crop residue as per notified stipulated percentages.

Accordingly, with the approval of Competent Authority, a Committee is hereby constituted as under:

Sl. No.	Name and Designation	Agency
1	Dr. Virinder Sharma, Member-Technical	CAQM
2	Chief Engineer, Thermal Engineering & Technology Development (TEDA)	CEA, MoP
3	Mission Director	SAMARTH, MoP
4	Dr. Prasoon Gargava, Scientist 'F'	CPCB


 (Ram Kumar Agrawal)
Director Technical

To,

1. Dr. Virinder Sharma, Member-Technical, CAQM
2. Chief Engineer, Thermal Engineering & Technology Development (TETD), CEA
3. Mission Director, SAMARTH, MoP
4. Dr. Prasoon Gargava, Scientist 'F', CPCB

Contd...P/2

-2-

Copy to:

1. PS to Chairperson, CAQM, for kind information of Chairperson, please
2. PS to Member-Secretary, CAQM, For kind information of Member-Secretary, please
3. Dr. Vikash Singh, Scientist 'E', CAQM
4. Sh. Ritesh Prasad Gurung, Scientist 'E', CAQM



राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्र
वायु गुणवत्ता प्रबंधन आयोग
Commission for Air Quality Management in
National Capital Region and
Adjoining Areas



F.No.-120015/25/TPP/CAQM/(HPGCL-PTPS) 1519DT

Dated: 23.12.2025

SHOW CAUSE NOTICE

IMPOSITION OF ENVIRONMENTAL COMPENSATION UNDER RULE – 3 OF THE ENVIRONMENT (UTILISATION OF CROP RESIDUE BY THERMAL POWER PLANTS) RULES, 2023 FOR NON-COMPLIANCE OR CONTRAVENTION OF THE PROVISIONS OF THE AFORESAID RULES WITH RESPECT TO MANDATING USE MINIMUM FIVE PER CENT BLEND OF PELLETS OR BRIQUETTES MADE OF CROP RESIDUE ALONG WITH COAL AS PART OF EX-SITU PADDY STRAW MANAGEMENT.

WHEREAS, MoEF&CC has notified Environment (Utilisation of Crop residue by Thermal Power Plants) Rules, 2023 read with Corrigendum GSR 522(E), dated 18.07.2023 (hereinafter referred to as the “Rules, 2023”) which are applicable to National Capital Region and the Adjoining Areas as defined respectively in clauses (f) and (a) of sub-section (1) of section 2 of the Commission for Air Quality Management in National Capital Region and Adjoining Areas Act, 2021(hereinafter referred to as the “CAQM Act”);

WHEREAS, Rule 2 of the Rules, 2023 mandates coal based thermal power plants of power generation to utilise a minimum five per cent (min. 5%) blend of pellets or briquettes made of crop residue along with coal;

WHEREAS, the Rule 3 of the Rules, 2023 also empowers the Commission for Air Quality Management in National Capital Region and Adjoining Areas (hereinafter referred to as the “Commission”) or its authorized officer to impose and collect the Environmental Compensation (hereinafter referred to as the “EC”) from non-compliant Thermal Power Plants on annual basis for non-utilisation of crop residue as per Rule 2, of the said Rules;

WHEREAS, Ministry of Environment, Forest and Climate Change, Government of India, in exercise of the power conferred under Section 3 of the CAQM Act, has constituted the Commission;

WHEREAS, Section 12(2)(xi) of the aforesaid CAQM Act empowers the Commission to issue directions in writing to any person, officer or any authority, which includes power to direct closure, prohibition or regulation of any industry, operation or process and also includes stoppage or regulation of supply of electricity or water or any other service;

WHEREAS, the Commission is empowered to take all such measures and issue directions as it deems necessary or expedient for the purpose of protecting and improving the quality of the air in the National Capital Region and Adjoining Areas;

WHEREAS, the Commission had rigorously taken up co-firing of bio-mass/pellets in coal based Thermal Power Plants as viable and major alternate to control stubble burning to mitigate air pollution. Therefore, it was felt by the Commission to promote and create an eco-system for *ex-situ* crop residue management through biomass utilization in Thermal Power Plants (TPPs)

WHEREAS, the Commission after extensive deliberations and taking inputs of all concerned stakeholders had issued Advisory No(s) 5-7 dated 28.07.2021 to the State Governments of Haryana, Punjab and Uttar Pradesh for initiating several steps so that paddy straw based biomass pellets can be successfully used in TPPs for co-firing;

WHEREAS, the Commission subsequently reviewed the issue of co-firing of biomass pellets with the concerned stakeholders and keeping in view the compelling need to control air pollution from burning of paddy straw and its effective utilization as a resource, the Commission issued Statutory Direction No 42, dated 17.09.2021 to Thermal Power Plants situated upto a radius of 300 km of Delhi mandating co-firing of biomass based pellets up to 5-10 % substituting coal with immediate effect through a continuous and uninterrupted supply chain;

WHEREAS, NTPC, based on the trials and experimentation has confirmed that it is technically feasible and implementable to co-fire bio-mass pellets/ torrefied pellets with coal in proportion up to 5-10% in the TPPs without any modifications in the boilers and

there are no technical constraints in utilizing paddy straw pellets for co-firing in super critical plants and such co-firing is already being done in super-critical boilers in three NTPC plants;

WHEREAS, the Commission in a series of meetings with the concerned State Governments and stakeholders had closely monitored and reviewed the status of implementation and compliance of its Statutory Direction No. 42 dated 17.09.2021 and also issued necessary instructions from time to time for ensuring effective and strict compliance of the Commission's Directions;

WHEREAS, despite issuing Statutory Directions, subsequent continuous meetings / reviews, M/s Panipat Thermal Power Station (PTPS) has continuously failed to ensure co-firing of requisite / targeted biomass/ biomass-based pellets in their unit; ;

WHEREAS, noting a lack of implementation despite Statutory Directions, the Rules, 2023 and regular reviews, the Commission previously vide its communication bearing No. F.No.-120015/25/TPP/CAQM/(HPGCL-RGTPS)/767, dated 15.02.2024 served notice to M/s Panipat Thermal Power Station (PTPS) with an intent to take action under Section – 14 of the Commission for Air Quality Management in NCR and Adjoining Areas Act, 2021 for non-compliance or contravention of the directions issued under section 12(2)(xi) with respect to co-firing paddy stubble as part of ex-situ paddy straw management *vis-a-vis* Direction No.-42, dated 17.09.2021;

WHEREAS, M/s Panipat Thermal Power Station (PTPS) in its reply dated 07.03.2024 submitted various reasons for the non-compliance. However, upon examination of the reply it was found that no substantial reason was explained by the RGTPP to the Commission, which may establish that non-compliance was due to the reason(s) that were beyond their control;

WHEREAS, the compliance status for co-firing of requisite / targeted blend of pellets or briquettes made of crop residue in TPPs were found not satisfactory. Accordingly, high level joint inspection visits were conducted in such TPPs which included the TPP of M/s Panipat Thermal Power Station (PTPS). Based on the said inspection, amongst other instructions, PTPS was asked to immediately place multiple diversified orders to multiple vendors to ensure compliance, including setting up own pellets manufacturing plant;



WHEREAS, as per the information provided by the Ministry of Power, Government of India, indicates that M/s Panipat Thermal Power Station (PTPS) has co-fired only 61809 Metric Tonnes in 2024-25 against the mandatory co-firing target of more than 3% i.e. at least 97,864 Metric Tonnes during financial year 2024-25, which clearly establish the fact that entity has done only about 1.86% of biomass co-firing in the year 2024-25, which was in gross violation of the Rules, 2023 on account of the fact that as per Rule 2 “all coal based thermal power plants of power generation utilities shall mandatorily use minimum five per cent blend of pellets or briquettes made of crop residue along with coal” and Rule 3 mandates co-firing of more than 3% for FY 2024-25 so as to avoid imposition of stipulated environmental compensation. Therefore, due to consistent non-compliance, M/s Panipat Thermal Power Station (PTPS) has failed to comply with the directives/ mandates of the Commission and also failed to comply with the statutory mandates under the Rules, 2023.

WHEREAS, as per Rule 3 of the Environment (Utilisation of Crop residue by Thermal Power Plants) Rules, 2023, Environmental compensation of **Rs. 8,97,93,640/- (Eight crore ninety seven lakh ninety three thousand six hundred forty only)** is required to be imposed on M/s Panipat Thermal Power Station (PTPS) for violation of the Rules, 2023 without prejudice to any action under the provisions of the CAQM Act as given below;

Determination of applicable Environmental Compensation (EC) for the year 2024-25						
Details of TPP	Coal Consumed (in Metric Tonnes)	Biomass co-firing required to meet 3% (in Metric Tonnes)	Actual Biomass co-fired (in Metric Tonnes)	Biomass Co-fired (in %)	Electricity Generated in (Million Units)	Environmental Compensation in Rs. (@ Rs. 0.02 per unit of electricity generated)
HPGCL, PTPS, Panipat (710 MW)	32,62,142.73	97,864	61,809	1.86 %	4489.682	8,97,93,640/-

WHEREAS, the Commission on 21.03.2025 constituted a Committee in terms of Rule 5 of the Rules, 2023 comprising of Members from the Commission, Central Electricity Authority (CEA) and Sustainable Agrarian Mission on use of Agri-Residue in Thermal Power Plants (SAMARTH) and Central Pollution Control Board (CPCB), to consider

relaxation to thermal power plants on the Environmental Compensation imposed on them for non-utilization of crop residue on case to case basis;

WHEREAS, the representation(s) of HPGCL- (PTPS) and submission(s) made by their representative(s) before the Committee, were duly considered by the Committee. The Director (Technical), HPGCL represented altogether the cases of 3 TPPs of the HPGCL namely Rajiv Gandhi TPS (RGTPS) - Hissar, Deenbandhu Chhotu Ram TPS - Yamunanagar (DCRTPS) and Panipat TPS - (PTPS). HPGCL vide Memo No. 186/Ch-22/CE/PLG/Biomass Pellets - 294/Vol-V dated 09.04.2025. Based on submission(s) made in the representation(s) and also before the Committee, following broad reason(s) were put forth by M/s HPGCL:

- I. Due to non-availability of manufacturers and proven technology the supplier took time to provide the supply as per the requirements.
- II. HPGCL could co-fire biomass pellets with coal in thermal plants only after getting the consent/ approval of OEM.
- III. M/s BHEL OEM of Panipat TPS (PTPS) consented for co-firing in June, 2024.
- IV. That the State level high powered purchase committee decided that parali shall be procured through Agriculture portal and from specific districts for respective thermal plants. Due to this HPGCL faced problem in procuring parali. However, relaxation in respect of above clause were accorded to by the State Govt.
- V. Earlier quantity of PO was assessed on the basis of average coal consumption from FY 2018-2019 to 2020-21. However, during 2024-25 there was higher demand of quantity of biomass pellets. Thus, lesser supply during 1st half of FY 2024-25 led to missing of the target by HPGCL.

WHEREAS, after detailed deliberations, the Committee is of the considered view that M/s Panipat Thermal Power Station (PTPS) has co-fired biomass less than 3% of its total consumption. The reason(s) put forward by M/s PTPS fail to establish that the circumstances highlighted by them were beyond their control so as to justify non-compliance with the applicable statutory requirements. The Committee observed that the TPP could have taken effective and timely measures to ensure compliance with the co-firing mandate, particularly in view of the fact that such directions have been in force since 2021, followed by subsequent Rules notified in the year 2023, thereby affording

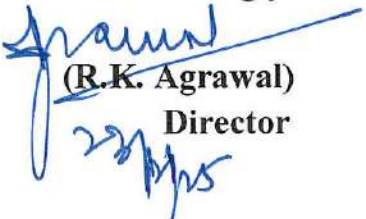


sufficient opportunity to address the issue adequately. The TPP not only failed to comply with the directions issued by the Commission, as well as the co-firing mandate under the Rules, 2023 but also failed to establish the ground(s) for relaxation of Environmental Compensation as stipulated under the Rules, 2023;

NOW, THEREFORE, in view of the above, the Commission, hereby directs you to explain:

- (i) why Environmental Compensation of Rs. 8,97,93,640/- (Eight crore ninety seven lakh ninety three thousand six hundred forty only) should not be imposed upon M/s Panipat Thermal Power Station (PTPS), Panipat, Haryana in accordance with the Environment (Utilisation of Crop residue by Thermal Power Plants) Rules, 2023; and
- (ii) why action should not be initiated against you and other responsible person(s), as stipulated under Section 14 of the Act, for non-compliance / contravention of the Order(s) / Direction(s) issued by the Commission. It is further directed to also submit the details of the responsible person(s) for aforesaid non-compliance.

Your explanation should reach to the Commission within fifteen (15) days from the date of this Notice, failing which, it shall be presumed that you and the Company have nothing to state and action as per the provisions of the Act shall be initiated accordingly.


(R.K. Agrawal)
Director

To,

1. Dr. Saket Kumar, IAS
The Managing Director
Haryana Power Generation Corporation Limited (HPGCL)
Room No.411, 3rd Floor, Urja Bhawan,
C-7, Sector-6, HPGCL Panchkula;
E-mail: md@hpgcl.org.in

2. Sh. Suraj Bhan
The Chief Engineer
Panipat Thermal Power Station, Village Assan,
Jind Road, Panipat, Haryana, PIN - 132105
E-mail: cepts@hpgcl.org.in

Copy to:

1. The Chairman, Haryana Power Generation Corporation Limited.
2. The Member Secretary, Haryana State Pollution Control Board.


(R.K. Agrawal)
Director



HARYANA POWER GENERATION CORPORATION LIMITED

Regd. Office – C-7, UrjaBhawan, Sector-6, Panchkula

Corporate Identity Number: U45207HR1997SGC033517

Website: www.hpgcl.org.in E-mail: cepts@hpgcl.org.in

From

Chief Engineer/ PTPS,
HPGCL, Panipat.

To

The Director,
Commission for Air Quality Management,
17th Floor, Jawahar Vyapar Bhawan (STC Building),
Tolstoy Marg New Delhi-110001.

Memo No. Spl-1/PA/CE/MF

Dated : 06-01-2026

Subject: - Reply/Explanation to the Show Cause Notice reg. Imposition of Environmental Compensation Under Rule-3 of The Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023 for Non-Compliance or Contravention of The Provisions of the Aforesaid Rules with respect to Mandating Use Minimum Five Per Cent Blend of Pellets or Briquettes Made of Crop Residue Along With Coal as Part of Ex-Situ Paddy Straw Management.

Reference:

- (i) CAQM Notice no. F.No.120015/25/TPP/CAQM/(HPGCL-PTPS)1519DT dated 23.12.2025.
- (ii) HPGCL letter no. 186/Ch-221/CE/PLG/Biomass Pellets-294/Vol-V dated 09.04.2025 to Hon'ble CAQM.

Sir,

Please refer to your office memo regarding subject cited 'Show Cause Notice'. In this regard the following is submitted for kind consideration:-

HPGCL is a body Corporate constituted under the Companies Act, 1956 for the purpose of generation of electricity. The body Corporate is owned by the State of Haryana and is governed by the provisions of the Electricity Act, 2003 & other Regulation/Rules issued by the Government from time to time. M/s Panipat Thermal Power Station (PTPS), Panipat, Haryana is one of the three thermal plants owned by HPGCL.

A. Background

1. MoEF&CC notified Environment (Utilisation of Crop residue by Thermal Power Plants) Rules, 2023, which are applicable to National Capital Region and the Adjoining Areas as per section 2(1) of the Commission for Air Quality Management in National Capital Region and Adjoining Areas Act, 2021. Entire State of Haryana and TPPs operating therein are under the domain/jurisdiction of the CAQM.
2. The Commission vide its communication dated 15.02.2024 served notice to M/s Panipat Thermal Power Station (PTPS), Panipat, Haryana for non-compliance of the directions with respect to Direction No.-42, which was duly replied by PTPS on 07.03.2024.
3. HPGCL approached the Commission on 09.04.2025 (**Annexure-I**) to exempt the levy of Environmental Compensation for FY 2024-25 as per Rule 5 of the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023 and presented its case to CAQM in-person on 22.09.2025, however the Commission found that no substantial reason was explained by PTPS, which may establish that non-compliance was due to the reason(s) that were beyond their control.
4. Thereafter, subject cited SCN has been issued to M/s Panipat Thermal Power Station (PTPS), Panipat, Haryana to explain:
 - i) Why Environmental Compensation of Rs. 8,97,93,640/- (Eight crore ninety seven lakh ninety three thousand six hundred forty only) should not be imposed upon M/s Panipat Thermal Power Station (PTPS), Panipat, Haryana in accordance with the Environment (Utilisation of Crop residue by Thermal Power Plants) Rules, 2023; and
 - ii) Why action should not be initiated against you and other responsible person(s), as stipulated under Section 14 of the Act, for non-compliance / contravention of the

Order(s) / Direction(s) issued by the Commission. It is further directed to also submit the details of the responsible person(s) for aforesaid noncompliance.

B. Reasons for not meeting the mandated targets

1. At the outset it is humbly submitted that HPGCL is committed for generation of clean energy to augment domestic and industrial needs of power and to strengthen the energy security of the State for development of the Nation by adhering to all the directions of the Commission.
2. HPGCL is aware and dedicated to protect environment from pollution thereby steadfast to obey all the environmental norms issued by the Commission from time to time.
3. HPGCL made sincere endeavours to implement all the directions of the Commission but couldn't achieve the mandated target due to reasons beyond its control and not due to any lack of intent. The following were the major factors for non-achievement of targets:-

Statutory Binding

- i. Though NTPC, based on the trials and experimentation has confirmed the technical feasibility and implementation to co-fire bio-mass pellets/ torrefied pellets with coal in proportion up to 5-10% in the TPPs without any modifications in the boilers however, the said confirmation is not *ipso facto* applicable on HPGCL TPPs.
- ii. The Haryana Electricity Regulatory Commission (HERC) has been established under the Electricity Act, 2003 for regulating Haryana's Power Sector, ensuring electricity generation, transmission, distribution, and facilitating cost-effective tariffs and power sector reforms.

HPGCL, to implement directions of the Commission regarding co-firing bio-mass pellets/ torrefied pellets with coal in the TPPs, co-fired 550 MT of Torrefied Biomass Pellets at its thermal power plants during FY 2021-22, however was not allowed the pass-through by HERC, as envisaged in MoP Policy dated 08.10.2021. HPGCL filed a petition with HERC but it did not extend any relief. Thus, HPGCL approached Hon'ble Appellate Tribunal for Electricity, which directed HERC to take decision for interim arrangement within 4 weeks of being approached by HPGCL.

Pursuant thereto HERC, while allowing pass-through, directed HPGCL that

- a) Biomass pellets shall be procured from within Haryana;
- b) Pellets manufacturer be situated in Haryana.

Copy of the said order is attached as **Annexure II**.

- iii. There was statutory binding on PTPS Units to co-fire torrefied biomass pellets as per MoP Policy for Biomass Utilization dated 08.10.2021, having ball & tube mills.
- iv. The matter for consent for co-firing was taken up with M/s BHEL (OEM) in 2022 and after lot of pursuance, M/s BHEL consented to co-fire Torrefied Biomass Pellets in 2024. The trials at PTPS were conducted by M/s BHEL from 27th May 2024 to 1st June 2024 and M/s BHEL mentioned in its trial report issued in June, 2024 that *PTPS is the first TPS equipped with ball and tube mill, which successfully test fired biomass pellets co-firing*. Copy of the M/s BHEL trial report is attached as **Annexure III**.

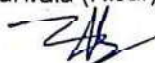
It is submitted that representatives of SAMARTH Mission also witnessed the trial testing done at PTPS, Panipat.

As per statutory mandate, HPGCL could not by-pass the procedural steps which cost time and adhering to HERC, MoP Policy and OEM consent caused additional constraints for procurement of biomass pellets to be consumed in the FY 2024-25.

Constraint due to directions to use Torrefied Biomass Pellets only and lack of availability of Torrefied Biomass Pellets

HPGCL was constrained to use Torrefied biomass pellets at PTPS, Panipat. The Torrefied pellet manufacturing was a new concept during 2024-25 and yet to be established. Owing to non-availability of manufacturers in the State of Haryana and proven technology in Torrefied pellets, the supplier took time to build up the supplies as per the requirement.

The engaged firm (PO on 10.05.2023 through e-NIT issued on 29.03.2022) initially set up its manufacturing plant at Barwala (Hisar) and started supply of only meagre



quantity of biomass in April 2024. The supplier faced difficulties in obtaining requisite clearances from various Govt. agencies and therefore could not set up its plant at other places including Assandh, Panipat & Daulatpur, Yamunanagar and had to shift the machinery to the existing plant at Barwala in October 2024.

That the above PO (in line with Model Contract of MoP dated 02.03.2022) had provision of delivery period within 270 days from date of issue of PO. Thus, even though the PO was placed on 10.05.2023, the supplier could not supply the Torrefied biomass pellets within prescribed time of 270 days, since manufacturing of Torrefied Pellets was a relatively new concept/technology.

HPGCL has made best efforts with due diligence, but couldn't procure the requisite quantum of Torrefied biomass pellets, due to reasons beyond its control.

Constraint regarding purchase of Parali through agriculture portal by the supplier

Hon'ble CM in State Level High Powered Purchase Committee (SLHPPC) meeting, while considering the agenda for procurement of Torrefied biomass pellets directed to frame modalities for making payments of paddy straw to farmers directly through Agriculture & Farmers Welfare Department, Govt. of Haryana.

Pursuant to directions of SLHPPC, HPGCL issued PO to the engaged firm on 10.05.2023 envisaging therein that the payment was to be made to the farmer directly through the portal of Agriculture & Farmers Welfare Department, Govt. of Haryana.

The engaged firm conveyed that the firm was facing problem in procuring parali through the agriculture portal and accordingly, HPGCL pursued the matter with Agriculture & Farmers Welfare Department. It was intimated by the Agriculture department that there is no provision in the portal to make the payment to farmers directly.

The matter was consistently pursued by HPGCL with State Govt. and relaxation in respect of above clause was obtained on 21.10.2024. Accordingly, amendment in PO in respect of relaxation for making payments of paddy straw to farmers directly through portal was issued on 07.11.2024 with a copy to CAQM (Annexure IV).

Constraint/confinement of procurement of Torrefied Biomass Pellets from specific districts in the State of Haryana

The engaged firm conveyed vide letter dated 13.06.2024 (Annexure-V) that the firm is facing problem in procuring parali from the allocated districts (as stipulated by HAREDA). The matter was consistently pursued by HPGCL with HAREDA and subsequently relaxation in respect of above clause were obtained from the State Govt. on 21.10.2024. Accordingly, amendment in PO was issued on 07.11.2024 with a copy to CAQM.

The commitment and bona-fide of HPGCL can be ascertained from the fact that the Commission had duly been conveyed regarding the constraints faced by HPGCL with a view to issue appropriate directions to mitigate the constraints so faced by HPGCL.

Though the constraint was lifted by the State Government on 07.11.2024, however, more than 7 months had elapsed for the FY 2024-25. Due to this, HPGCL could not meet the targeted quantum of blend of pellets or briquettes made of crop residue along with coal.

Evidently, non-achievement of target was beyond the control of HPGCL.

Cancellation of e-NIT due to SAMARTH direction to adhere to Benchmark rates

e-NIT for purchase of 02 lac MT torrefied biomass pellets for HPGCL Plants was issued on 21.10.2024. Meanwhile, Samarth Mission issued direction on 08.11.2024 (Annexure-VI) regarding adhering to benchmark rates of pellets and subsequently MoP issued benchmark price of Torrefied pellets on 18.11.2024 (Annexure-VII), due to which the tender was cancelled to incorporate the same.

e-NIT was again issued on 31.01.2025 for purchase of 3.55 lac MT torrefied biomass pellets for HPGCL Plants, however same was cancelled in view of insufficient bidders of Torrefied Pellets.

HPGCL has been making consistent efforts to procure torrefied biomass pellets since 2019 by floating multiple tenders. However, most of them could not materialize due to non-availability of pellet suppliers.

It is vehemently asserted that the circumstances/constraints faced by HPGCL were beyond its control.

C. Progress of Work

Post removal of aforesaid constraints in the month of Nov 2024, substantial rise in procurement of pellets was achieved. PTPS Co-firing details during 2024-25 is tabulated as under:-

Month	% Co-firing
May,24	0.05
June,24	0.13
July,24	0.53
August,24	1.51
Sept,24	0.42
Oct,24	2.05
Nov,24	3.37
Dec,24	3.44
Jan,25	4.63
Feb,25	4.16
March,25	4.03
FY 2024-25	1.86

The semester average of co-firing of Torrefied biomass pellets for the FY 2024-25 is as under:-

% Biomass Co-firing during FY 2024-25	
1 st Half	0.45
2 nd Half	3.56

The non-achievement to targets in first half of FY 2024-25 was not intentional but incidental due to the constraints mentioned above, which in no manner can be attributable to HPGCL. Thus, the reasons/constraints were beyond the control of HPGCL.

Further, the commitment of HPGCL to adhere to the directions of the Commission can be ascertained from the endeavors made by the Corporation in view of the aforementioned data.

It is vehemently asserted that none of the TPPs under the jurisdiction of the Commission could achieve the target of co-firing Torrefied biomass pellets in FY 2024-25, substantiating the case put forward by PTPS, Panipat. It is, therefore humbly requested that the present show-cause notice may kindly be dropped.

HPGCL is ensuring energy security, consumer welfare, and optimal utilization of coal resources, in alignment with national objectives exercising due diligence to mitigate pollution. Any coercive action as stated in the Show Cause Notice dated 23.12.2025 would not only cause loss to public exchequer but also will be adverse to the interests of the Corporation as well as National interests. Dropping the present show-cause notice, on the other hand, would advance the objectives of energy security, optimal utilization of domestic coal resources, and efficient deployment of public funds, which are central to national policy.

In view of the relentless efforts made with due diligence, the substantial progress already achieved on ground, public interest involved and circumstances beyond control of the Corporation, it is most respectfully prayed to the Hon'ble Commission (CAQM) to drop the Show Cause Notice dated 23.12.2025 in Interest of justice as per Rule 5 of the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023.


Chief Engineer PTPS,
HPGCL, Panipat.

Copy to:

1. The Chairman, CAQM, New Delhi for kind information, please.
2. The Additional Secretary, MoP, GoI, New Delhi for kind information, please.
3. The Chairman, HPGCL, Panchkula for kind information, please.
4. The MD/HPGCL, Panchkula for kind information, please.


HARYANA POWER GENERATION CORPORATION LIMITED

Regd. Office – C-7, Urja Bhawan, Sector-6, Panchkula

Corporate Identity Number: U49207HR1997SGC033517

Website- www.hpgcl.org.in E-mail- ceplg@hpgcl.org.in

From

The Managing Director,
HPGCL, Panchkula.

To

The Hon'ble Chairman,
Commission for Air Quality Management (CAQM),
7th Floor, Jawahar Vyapar Bhawan,
(STC Building), Tolstoy Marg,
New Delhi-110001.

Memo No. 186 /Ch- 22/ /CE/PLG/Biomass Pellets- 294/Vol-V

Dated : 09.04.2025

Subject: Request for relaxation from Levy of Environmental Compensation for FY 2024-25 in terms of MoEF&CC Notification dated 18.07.2023

On subject cited above, following is submitted before the Hon'ble Commission:-

1. HPGCL is the Haryana State-owned Power Generation Company having its Thermal Power Plants at PTPS Panipat (1x210 MW+2x250 MW), DCRTTP Yamuna Nagar (2x300MW) & RGTPP Hisar (2x600 MW) and falls under the jurisdiction of the Haryana State Electricity Regulatory Commission ("HERC").
2. As per the Ministry of Power (MoP) Policy 16.06.2023 (**Annexure-1**) all Coal Based Power Plants are mandated to co-fire 5% of biomass pellets with coal from FY 2024-25.
3. As per MoEF&CC notification dated 18.07.2023, Commission for Air Quality Management (CAQM) is empowered to impose Environmental Compensation on coal-based power plants that fail to meet biomass blending target of less than 3% during FY 2024-25.
4. In order to co-fire Biomass with coal as per MoP Biomass policy, HPGCL issued Purchase Order (PO) to M/s Beyond Drilling and Exploration Private Limited, Faridabad on 10.05.2023 for procurement of 19.3 Lakh MT (2.75 Lakh MT/year) Torrefied Biomass Pellets for a period of seven (07) years with the approval of State Level High Power Purchase Committee of Haryana.

However, despite all out efforts, HPGCL could not meet with the mandated target owing to following constraints:

i. Vendors Availability

It is well known fact that torrefied pellet manufacturing is a new concept and yet to establish to have sufficient vendor base. Owing to non-availability of manufacturers and proven technology the supplier took time to build up the supplies as per the requirement. Recently few manufacturers have entered into the field.

ii. Regulator Directions

HERC has allowed for co-firing biomass-based pellets with coal, with the condition that the raw material for biomass pellets should be procured from the state and also the manufacturing plant be situated within the state of Haryana. Further, HERC directed that HPGCL will co-fire biomass pellets with coal in thermal plants, only after getting the consent/approval of OEM, specific to its power plants at Yamunanagar and Hisar.

iii. OEM Consent

After lot of pursuance, OEM (M/s SEC China) of RGTPP Hisar & DCRTTP Yamunanagar consented to co-fire Torrefied Biomass Pellets. PTPS Panipat is equipped with **Ball & Tube Mills** and as per biomass policy is mandated to co-fire **torrefied biomass pellets** with volatile matter below 22%.

After lot of perusal, M/s BHEL (OEM of PTPS Plant) carried out the trial co-firing during May, 2024 and consented for co-firing in June 2024. Thus, the co-firing could only be started in July 2024. BHEL mentioned that PTPS is the first TPS equipped with ball and tube mill, who has successfully co-fired biomass pellets.

iv. Setting up of Pellet Manufacturing Plant Issue

The firm initially set up its manufacturing plant at Barwala (Hisar) and started the only meagre quantity of biomass in March 2024. Owing to requisite clearances from various agencies, the firm could not set up its plant in Assandh for PTPS Panipat & Yamunanagar for DCRTTP and had to shift the machinery to the existing plant at Barwala in October 2024, (**Annexure-2**).

v. Parali Procurement Issue

At the time of award, State Level High Powered Purchase Committee (SLHPPC) decided that parali shall be procured through Agriculture Portal and from specified districts for respective thermal plants. Accordingly, Energy Department Haryana allocated service areas for procurement of paddy straw for Thermal Power Stations of Haryana (**Annexure-3**).

The firm faced problem in procuring parali through the portal from the allocated districts. Subsequently, on the request of firm, relaxation in respect of above clauses were accorded from the State Govt. Accordingly, amendment in PO was issued on 07.11.2024 with a copy to CAQM (**Annexure-4**).

vi. Increased Coal Consumption

The quantity of PO dated 10.05.2023 was assessed on the basis of average coal consumption from FY 2018-19 to 2020-21. However, the coal consumption increased during 2024-25, due to increase in power demand & scheduling of HPGCL Plants, thus demanding higher quantity of biomass pellets to meet with the target. Further, the lesser supply during 1st half of FY 2024-25 aggravated the issue and leading to missing of target by HPGCL.

5. After the removal of above bottlenecks, substantial rise in co-firing have been achieved during 2nd half of FY 2024-25, as tabulated below :

% Biomass Co-firing during FY 2024-25	
1 st Half	0.75
2 nd Half	3.35

6. To meet the additional requirement of biomass pellets, e-NIT for purchase of 02 lakh MT torrefied bio-mass pellets was issued on 21.10.2024, However, the tender has been cancelled keeping in view the Samarth Mission directive dated 08.11.2024 (**Annexure-5**).
7. HPGCL is making all-out efforts to achieve the mandated target of co-firing biomass pellets. However, owing to the constraints & challenges as explained above the co-firing remained low during the 1st half of FY 2024-25. The sustained efforts of HPGCL could yield results as can be seen during the 2nd half of FY 2024-25.

Therefore, it is hereby requested that relaxation may please be granted to HPGCL by exempting the levy of Environmental Compensation for FY 2024-25 as per Rule 5 of the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023. The levy of penalty may impact the finances of the state entity, which in turn would burden the consumers of the state.


 Chief Engineer/Planning,
 For Managing Director,
 HPGCL, Panchkula.

Copy to:

1. SPS to MD/HPGCL, for kind information of worthy MD/HPGCL, please.
2. PS to Director/Technical-I, HPGCL, Panchkula for kind information of Director/Technical-I, please.
3. PS to Director/Technical-II, HPGCL, Panchkula for kind information of Director/Technical-II, please.



F. No.11/86/2017-Th.II (C.No 238797)

Government of India
Ministry of Power

Shram Shakti Bhawan, Rafi Marg,
New Delhi, dated the 16th June, 2023.

To,

1. Principal Secretary/Secretary in-charge of Energy/Power
Departments, All States/UTs
2. Chairman, CEA
3. CMDs of all CGSs/PPs

**Subject: Modification of Revised Policy for Biomass Utilization for
Power Generation through Co-firing in Coal based Power
Plants dated 08.10.2021- reg.**

Sir/Madam,

I am directed to refer to this Ministry's "Revised Policy for Biomass Utilization for Power Generation through Co-firing in Pulverized Coal Fired Boilers" issued in 08.10.2021 and its Addendum issued on 03.05.2023(copies enclosed).

2. Keeping in view that the supply chain of biomass-based pellets is still in the process of development in the country and to further promote use of biomass pellets in coal based thermal power plants, the above Policy stands further modified as under:

(a) Existing Clause No.3- (i), (ii), (iii) to be replaced by the following clauses:

3(i) All coal based thermal power plants of power generation utilities with **bowl mills**, shall on annual basis mandatorily use minimum 5% blend of biomass pellets made, primarily , of agro residue along with coal with effect from FY 2024-25. The obligation shall increase to 7% with effect from FY 2025-26.

3(ii) All coal based thermal power plants of power generation utilities with **ball & race mills**, shall on annual basis mandatorily use 5% blend of biomass pellets(torrefied only) made, primarily, of agro residue along with coal with effect from FY 2024-25. The obligation shall increase to 7% with effect from FY 2025-26.

3(iii) All coal based thermal power plants of power generation utilities with **ball & tube mills**, shall on annual basis mandatorily use 5% blend of torrefied biomass pellets with volatile content below 22%, primarily made of agro residue along with coal with effect from FY 2024-25.

(b) Addition of Para 5, after Para 4 of ibid policy, as under:

A Committee shall be constituted under the leadership of CEA with members from MNRE, MoAFW, MoPNG, Forum of Regulators, SAMARTH, State Governments, Power Utilities etc. for **price benchmarking of biomass pellets** considering the business viability, impact on electricity tariff and efficient & faster pellet procurement by power utilities.

The Price benchmarking would be carried out region-wise for a period of 5 years with the provision for periodic escalation. The benchmark price will not include the transportation cost from the pellet manufacturing unit to the Thermal Power Plants (TPPs). TPPs shall determine the transportation cost from pellets manufacturing units to TPPs in a fair and transparent manner. The procurement of benchmark-priced pellets shall be carried out on a first-come, first-serve basis. If TPPs are unable to procure biomass pellets at the benchmark price, they have the option to go for a short-term tender. However, it is important for TPPs to ensure that the price discovered in the short-term tender is determined in a fair and transparent manner. The price discovered should also be comparable to the benchmarked prices. The recommendation of Price Benchmarking Committee will be effective from 01.01.2024. The existing tendering process shall continue till the implementation of the Benchmarking Committee recommendations. Meanwhile, the power utilities shall go for short term tenders for meeting the immediate requirement of biomass pellets for their TPPs.

(c) Addition of Para 6, after Para 5 of ibid policy, as under

It has been observed that the availability of torrefied biomass pellets is much lower in the market. Therefore, those power plants which can

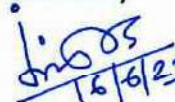


use non-torrefied pellets should utilize the same only. Hence, TPPs having Bowl mill will issue tenders for non-torrefied biomass pellets only, while TPPs having either Ball & Race mill or Ball & Tube mill will issue tenders for Torrefied biomass pellets. This practise will continue till further notification on this issue.

3. This issues with the approval of Hon'ble Minister of Power & NRE.

Yours sincerely

Encl: as above.


16/6/23

(J.Misra)

Under Secretary to the Government of India

Tele: 23063746

Copy to:

- (i) PS to Hon'ble Minister of Power & NRE.
- (ii) PS to Hon'ble MoS for Power
- (iii) Sr PPS to Secretary(Power)
- (iv) PPS to SS&FA ,PPS to AS(AT)
- (v) All Joint Secretaries/EA/Chief Engineer, Ministry of Power
- (vi) In-charge, NIC, Ministry of Power- with a request to upload this document on the website of MoP.

Email

Yashna Gupta

Fwd: Intimation Regarding Production Capacity Shift to Barwala Plant From Yamunanagar

From : Parveen Arora <ceplg@hpgcl.org.in> Tue, Oct 15, 2024 09:46 AM
Subject : Fwd: Intimation Regarding Production Capacity Shift to Barwala Plant From Yamunanagar  1 attachment
To : V K Dhiman <seplg.pkl@hpgcl.org.in>, Yashna Gupta <xenplgp1.pkl@hpgcl.org.in>

Mail is forwarded for taking further necessary action pl.

Regards

Chief Engineer/Planning
HPGCL, Panchkula

From: beyonddrillingexploration@gmail.com
To: "Parveen Arora" <ceplg@hpgcl.org.in>
Cc: "Rajeev Gupta" <cedcrtp@hpgcl.org.in>, "Amit Dilbagi" <ceptps@hpgcl.org.in>, "Surinder Singh Mittal" <osdtechmd@hpgcl.org.in>, "Amod Jindal" <cergtpp@hpgcl.org.in>, "R K Verma" <dirtech2@hpgcl.org.in>
Sent: Monday, October 14, 2024 5:35:56 PM
Subject: Intimation Regarding Production Capacity Shift to Barwala Plant From Yamunanagar

Dear Arora Shab,

We are writing to inform you of recent developments regarding our production operations. Due to challenges in obtaining the Consent to Operate (CTO) approval for our Yamunanagar branch, we have shifted and installed the two reactors from Yamunanagar at our Barwala premises. This adjustment brings our total production capacity at the Barwala plant to 750 tons per day, consisting of four reactors with a capacity of 150 tons each and one reactor with a capacity of 300 tons per day.

Additionally, we currently have a brand-new reactor located at our Asand branch. However, given the potential difficulties in securing CTO approval at that location as well, we are considering relocating this reactor to the Barwala plant soon. Once this decision is finalized, we will update you accordingly.



Latest snaps showing 5 reactors at Barwala Location.

For the time being, we would like to confirm that all manufacturing activities will now be concentrated at our Barwala plant, and the Yamunanagar facility will be used solely as a stock-keeping location.

We trust this intimation is in order and will keep you informed of any further developments.

Thank you for your continued support.

rgds

RASHMI KIKAN

MANAGING DIRECTOR

BEYOND DRILLING AND EXPLORATION PVT LTD

S21 M2K MULTIPLEX, MANGALAM PLACE,

SECTOR-3, ROHINI, DELHI-110085, INDIA

CELL NO: +919915775301

EMAIL: beyonddrillingexploration@gmail.com

Website: beyonddrillingexploration.com

CIN: U74900DL2010PTC205269

**Energy Department, Haryana
(New & Renewable Energy)
Akshay Urja Bhawan, Institutional Plot No-1, Sector-17,
Panchkula.**

Memo No. HAREDA/2023 12679
the

Dated Panchkula, 2-1-23

ORDER

**Subject: Allocation of service areas for procurement
of paddy straw for Thermal Power Stations of Haryana.**

To ensure supply of paddy straw bales to the thermal Power stations of Haryana on government determined rates by farmers, the Haryana Government has allocated service areas for procurement of paddy straw by or on behalf of the Thermal Power Stations in the State as under:

- (a) **PTPS Panipat** : Karnal and Kaithal districts;
- (b) **DCRTPP Yamunanagar**: Yamunanagar, Ambala and Panchkula districts;
- (c) **RGTPP Hisar**: Hisar, Fatehabad and Sirsa districts;
- (d) **CLP Jhajjar**: Jind, Rohtak and Sonapat districts

- ii. Haryana Power Generation Corporation Limited (HPGCL) shall establish paddy straw depot at various places nearby Thermal Power Stations in such a manner that farmers may have not to travel more than 25 Km for selling paddy straw bales. Thermal Power plants are bound to procure the paddy straw only from the farmers of service area allocated to them on government determined rates and they will not be allowed to purchase paddy straw outside this allocated service area. They will make payment on government determined rates to the registered farmers through portal of Agriculture and Farmers Welfare.
- iii. Agriculture and Farmers Welfare Department shall give wide publicity and ensure registration of farmers on the portal to sell paddy straw bales on government determined rates to the Thermal Power Stations within allocated service area.

This issues with approval of competent authority.

Director General (NRE)
Energy Department, Haryana

Endst. No. 12680

Dated 2-1-23

File No.NRE-01/17/2021-Technical-NRE/HAREDA

A copy of above is forwarded to Additional Chief Secretary to Govt. of Haryana, Agriculture and Farmers Welfare Department, Haryana New Civil Secretariat, Sec-17, Chandigarh for information please.

Director General (NRE)
Energy Department, Haryana

Endst. No. 12681

Dated 2-1-23

A copy of above is forwarded to Principal Secretary to Govt. of Haryana, Energy Department, Haryana Civil Secretariat, Chandigarh for information please.

Director General (NRE)
Energy Department, Haryana

Endst. No. 12682

Dated 2-1-23

A copy of above is forwarded to Managing Director, IIPGCL, C-7, Urja Bhawan, Sec-6, Panchkula for information and necessary action please.

Director General (NRE)
Energy Department, Haryana

Endst. No. 12683

Dated 2-1-23

A copy of above is forwarded to Director General, Agriculture and Farmers Welfare Department, Krishi Bhawan, Sector-21, Panchkula for information and necessary action please.

Director General (NRE)
Energy Department, Haryana

Endst. No. 12684-12705

Dated 2-1-23

A copy of above is forwarded to all Deputy Commissioners of Haryana for information and necessary action please.

Director General (NRE)
Energy Department, Haryana

Signed by S. Narayanan

Date: 02-01-2023 12:56:49

Reason: Approved

11/12/24, 5:53 AM

Email

Email

Yashna Gupta

Purchase Order No. 44/CE/PLG/GENL-30 dated 10.05.2023 for supply and delivery 19.3 Lakh MT agro residue based Torrefied Biomass Pellets to HPGCL Thermal Power Plants.

From : Yashna Gupta <xenplgp1.pkl@hpgcl.org.in>

Mon, Nov 11, 2024 01:04 PM

Subject : Purchase Order No. 44/CE/PLG/GENL-30 dated 10.05.2023 for supply and delivery 19.3 Lakh MT agro residue based Torrefied Biomass Pellets to HPGCL Thermal Power Plants.

 2 attachments

To : CAQM NCR <caqm-ncr@gov.in>, National Biomass Mission <md-biomass-power@gov.in>

Cc : R K Verma <dirtech2@hpgcl.org.in>, Parveen Arora <ceplg@hpgcl.org.in>, V K Dhiman <seplg.pkl@hpgcl.org.in>

Respected Sir,

In reference to the subject cited Purchase Order (PO), it is intimated that an amendment to the PO has been issued vide letter dated 07.11.2024 (copy attached), with the approval of Worthy CM/Haryana.

This is for your kind information, please.

Regards,

Xen/Planning-I,
HPGCL, Panchkula.

 **DA Memo 236.pdf**
3 MB

 **Ammendments in PO- 07.11.2024**
698 KB

 HPGCL HARYANA POWER GENERATION CORPORATION LIMITED A 100% WHOLLY OWNED PUBLIC LIMITED LIABILITY COMPANY	<u>HARYANA POWER GENERATION CORPORATION LIMITED</u> <u>Regd. Office – C-7, UrjaBhawan, Sector-6, Panchkula</u> <u>Corporate Identity Number: U45207HR1997SGC033517</u> <u>Website: www.hpgcl.org.in E-mail- ceplg@hpgcl.org.in</u>
---	--

From

Chief Engineer/Planning,
HPGCL, Panchkula.

To

M/s. Beyond Drilling and Exploration Private Limited,
3A/89, Ground Floor, NIT, Faridabad (Haryana) - 121001

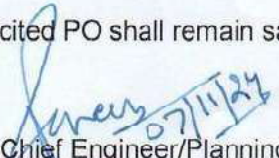
Memo No: 605 /Ch-156 /CE/PLG/Technical Issues-294 /vol-V
Dated: 07.11.2024

Subject: Amendment in Purchase Order (PO) No. 44/CE/PLG/GENL-30 Dated 10.05.2023 for procurement of 19.3 Lakh MT Torrefied Biomass Pellets for a period of seven (07) years.

The following Amendment is hereby issued w.r.t. Clause No. "C" & "E" at
Page no. 2 of subject cited PO:-

- The firm may procure paddy straw/parali directly from the farmers/aggregators instead of Agriculture and Farmers Welfare Department Portal, Haryana retrospectively and documentary evidence in the form of "certificate from Assistant Agriculture Engineers at District Level that procurement has been made from Haryana" shall be acceptable.*
- The firm may procure paddy straw from any of the districts of Haryana instead of allocated districts as per HAREDA order dated 02.01.2023 retrospectively.*

All other clauses/ terms & conditions of the subject cited PO shall remain same.


Chief Engineer/Planning,
HPGCL, Panchkul.



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power



थर्मल पावर प्लांटों में बायोमास के प्रयोग पर राष्ट्रीय मिशन (समर्थ)
National Mission on use of Biomass in Thermal Power Plants (SAMARTH)

Ref.: NBM/MD/24-25/11/052

Date: 08.11.2024

Subject: Procurement of Biomass Pellets to ensure farmers get remunerative price for the paddy stubble.

Dear Sir,

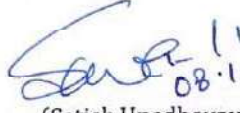
This is in reference to the Ministry of Power's revised biomass utilization policy for Thermal Power Plants (TPPs), CAQM direction No. 42 (effective from 01.04.2024), and subsequent notifications from the Ministry of Environment, Forest, and Climate Change (MoEFCC) regarding penalties for non-compliance (Ref. G.S.R. 522(E) dated 18.07.2023). Several communications from the National Biomass Mission, CEA, and MoP have previously highlighted the importance of compliance with these mandates.

The recent CAQM review on 21.10.2024, assessing biomass consumption in NCR TPPs up to 15.10.2024, has revealed significant shortfalls. It was further observed that recent orders placed through reverse auction at low prices have failed to provide supply to the TPPs even with sufficient ordered quantity. Therefore, **all TPPs are directed to adhere to the established benchmark prices given by MoP, in case the State has not notified their own benchmark price** (refer CAQM MUM para 7C dated 21.10.2024 enclosed)

The insufficient supply of biomass pellets will affect the mandated biomass cofiring leading to non-compliance, which will result in severe penalties as well as potential legal consequences.

Your immediate attention to these steps is crucial to achieving the required biomass co-firing mandates to ensure full compliance, as this issue is under strict scrutiny from the Hon'ble Supreme Court and other regulatory bodies. This will not only contribute to environmental sustainability but also ensure adherence to regulatory compliance.

Yours Sincerely


08.11.2024.
(Satish Upadhyay / सतीश उपाध्याय)
Mission Director/ मिशन निदेशक

Copy To,
Head of Plant, All NCR TPPs
MD, TSPL
MD, NPL
MD, APRAAVA
CMD, PSPCL
CMD, HPGCL
CMD, NTPC
All Nodal Officers of NCR TPPs
Member (Technical), CAQM
Enclosure,
CAQM MOM dtd 21.10.2024

**BEFORE THE HARYANA ELECTRICITY REGULATORY COMMISSION
BAYS No. 33-36, SECTOR-4, PANCHKULA- 134112, HARYANA**

**Case No. HERC/Review Petition No. – 5 of 2022
IA No. 13 of 2022**

**Date of Hearing : 14.07.2022
Date of Order : 19.07.2022**

IN THE MATTER OF:

Application for Interim Reliefs under Regulations 32 and 65 of the HERC (Conduct of Business), Regulations 2019 (IA No. 13 of 2022).

AND

Review Petition under Section 94 (1) (f) of Electricity Act, 2003 ("Electricity Act") read with Regulation 57 of Haryana Electricity Regulatory Commission (Conduct of Business) Regulations, 2019 ("CBR 2019") and Order dated 27.05.2022 passed by Hon'ble Appellate Tribunal for Electricity ("Hon'ble APTEL") in Appeal No. 209/2022 ("Appeal") seeking review of the Order dated 19.04.2022 in PRO/23/20221 by the Hon'ble Commission (Review Petition No. 5 of 2022).

Petitioner

Haryana Power Generation Corporation Ltd., Panchkula (HPGCL)

Respondent

Haryana Power Purchase Centre, Panchkula (HPPC)

Present on behalf of the Petitioner

Shri Tabrez Malawat, Advocate

Present On behalf of the Respondent

Smt. Sonia Madan, Advocate

Quorum

**Shri R.K. Pachnanda
Shri Naresh Sardana**

**Chairman
Member**

ORDER

1. The case was heard on 14.07.2022, as scheduled, in the court room of the Commission.
2. Shri Tabrez Malawat, learned advocate appearing on behalf of the petitioner submitted that the present review petition as well as IA has been filed, seeking review of the impugned order dated 19.04.2022 (Petition No. 23 of 2021) pursuant to the judgement of the Hon'ble Appellate Tribunal for Electricity (APTEL) dated 27.05.2022 (Appeal No. 209/2022), wherein Hon'ble APTEL has observed as under: -

"4. The appellant is aggrieved because without a decision of the nature pressed for before the Commission, it is unable to carry out the mandate of the Government of India on use of biomass pellets, to the extent of 5-10%, in the production of electricity, there being

also the threat of criminal prosecution for non-compliance of such directives under the environmental laws.

5. We are informed that after the decision was taken, the concurrence of original equipment manufacturer ("OEM") has been secured. In these circumstances, the only input remaining would be the result of a detailed study which is considered by the Commission to be essential. In our view, the Commission is possessed with requisite power not only to initiate such a study as is necessary but also to oversee its expeditious conclusion bearing in mind the expediency with which the matter requires to be approached.

6. The learned counsel for the appellant, at this stage, submitted that the appellant would be satisfied if permission were to be granted to go back to the Commission by a review petition, based on the concurrence received by the OEM, with the request that anterior to the decision from the methodology, as was originally requested, the Commission may direct an appropriate study to be undertaken by an appropriate agency so that effective decisions could be taken at the earliest. The learned counsel further submitted that while such a review petition may be permitted to be filed, the appellant may also be given liberty to approach the Commission in the course of such review proceedings for interim protection / arrangements, possibly along the line of the directives already put in position by the Central Electricity Regulatory Commission (CERC) on the subject. We grant the liberty as prayed.

7. Needless to add, the HERC will be obliged to deal with the issue expeditiously, and take appropriate decision, at least on the prayer for interim arrangement within four weeks of being approached by the appellant herein.

8. In above view, the appellant does not press the present appeal for any further directions. The appeal and applications filed therewith are disposed of in above terms."

3. Shri Malawat further averred that Commission for Air Quality Management ("CAQM") has issued directions on 17.09.2021 and 15.03.2022 which read as under: -

"14. NOW THEREFORE, in view of the above position and the compelling need to control air pollution from burning of paddy straw and its effective utilization as a resource, the Commission constituted under the provisions of "Commission for Air Quality Management in Nationals Capital region and Adjoining Areas, Act, 2021" hereby directs the Coal based Thermal Power plants situated upto a radius of 300 Km of Delhi:

To initiate immediate steps to co-fire biomass based Pellets, Torrefied Pellets/Briquettes (with focus on paddy straw) with Coal (up to 5-10%) in the power plants through a continuous and uninterrupted supply chain and to take all necessary steps to ensure that co-firing of biomass pellets in Thermal Power Plants begins without any delay"

HPGCL is liable to penal action for not complying with the direction of CAQM under Section 14 of the CAQM Act, 2021 is reproduced below:

"14. (1) Any non-compliance or contravention of any provisions of this Act, rules made thereunder or any order or direction issued by the Commission, shall be an offence punishable with imprisonment for a term which may extend up to five years or with fine which may extend up to one crore rupees or with both:"

4. The Commission considered the submissions of the petitioner and observes that *'concurrence of original equipment manufacturer ("OEM")'* i.e. SEC, China, mentioned by the petitioner is not specific to its Yamunanagar and Hisar plants. M/s. SEC, China has supplied plants elsewhere also which may be having different specifications/technology. The plant supplied by M/s. SEC, China to M/s. JPL, Jhajjar is not evidencing so many break-downs as are being witnessed in HPGCL's Yamunanagar and Hisar plants supplied by the same manufacturer. In order to address this concern, the Commission has desired concurrence of OEM on the issue of blending biomass pellets with primary fuel, so that, in case of difficulty/risk to the boiler of HPGCL power plants/any other difficulty which HPGCL may face on the basis of study carried out by independent agency on the availability of biomass, HPGCL can seek exemption from the policy under the "Revised Policy for biomass utilization for the power generation through co-firing in coal based power plants", dated 08.10.2021 of Ministry of Power, Govt. of India which provides that *"any power plant seeking exemption/relaxation from co-firing may be considered on case to case basis, based on recommendations from CEA..."*
5. However, even after the lapse of considerable period and directions of CAQM, the petitioner could not produce the proper concurrence of OEM in respect of its specific power plants at Yamunanagar and Hisar.
6. The Commission observes that the Energy Charge Rate (ECR) of thermal power plants of HPGCL is high due to cost of coal transportation caused by procurement of coal from remotely located coal mines as the coal is not available in the vicinity of Haryana. In order to overcome this issue of costly procurement of fuel and in order to ensure that social cost of eradication of burning of paddy straw in the State of Haryana only is borne by its Electricity Consumers, the Commission had directed the petitioner to analyse in detail the availability of biomass pellets in Haryana (so as to ensure that the biomass generated in Haryana is procured for manufacture of biomass pellets and biomass pellet manufacturer is situated in Haryana) and impact on the financial as well as technical parameters caused by such co-firing of biomass. However, Shri Malawat submitted that HPGCL does not have requisite expertise to undertake such analysis and instead quoted the observation of Hon'ble APTEL that the Commission is possessed with the requisite power to initiate such a study.
7. Upon hearing the parties and taking into consideration the observations of the Hon'ble APTEL as well the directions of the 'Commission for Air Quality Management ("CAQM")' dated 17.09.2021 and 15.03.2022, the Commission grants approvals, as sought by the petitioner, on dealing with pass-through of additional fuel cost incurred on account of usage of biomass pellets co-fired with coal in thermal power plants in line with the Order dated 18.02.2020 passed in 12/SM/2019 by the Hon'ble CERC. MoD shall accordingly be reckoned with on primary fuel only without considering the impact of Biomass Pellets.

HPGCL may initiate tender and bidding process for purchase of Biomass Pellets, subject to the conditions that the biomass pellets are manufactured using biomass (primarily paddy straw/stubble) procured from within Haryana and pellets manufacturer is situated in the State of Haryana, to avoid double transportation cost. HPGCL is also directed to carry out a detailed analysis of availability of biomass fuel including its impact on the financial as well as technical parameters, through an independent agency.

8. HPGCL will co-fire biomass pellets with coal in thermal power plants, only after getting the consent/approval of OEM, specific to its power plants at Yamuna Nagar and Hisar.
9. The present petition along with the IA filed in the matter, is disposed of in terms of the above order.

This order is signed, dated and issued by the Haryana Electricity Regulatory Commission on 19.07.2022.

Date: 19.07.2022
Place: Panchkula

(Naresh Sardana)
Member

(R.K. Pachnanda)
Chairman

TRIAL STUDY OF BIOMASS CO-FIRING WITH COAL AT PANIPAT THERMAL POWER STATION

HPGCL, HARYANA



BHEL

JUNE 2024

EXECUTIVE SUMMARY

The biomass co-firing with coal trials were conducted successfully at Unit-8 of HPGCL's Panipat Thermal Power Station (PTPS) from 27th May 2024 to 1st June 2024 by BHEL team. PTPS is the first TPS equipped with ball and tube mill successfully test fired biomass pellets co-firing. For this trial study PTPS team has arranged approximately 570 MT of agro-residual based torrefied biomass pellets.

The biomass pellets were fed using dedicated bunker and Conveyor belt 25, these belts of biomass pellets were calibrated using loads cells and made adjustments in the bunker opening. The pellets were mixed with the Indian coal on the Conveyor 30 and the resulting coal and biomass pellet fuel mixture was send to coal bunker using conveyor 31. By using the current method multiple level of mixing (1st on the conveyor belt, 2nd on the coal bunker and 3rd in the mill) between coal and biomass pellets has been achieved. Homogeneous mixing of coal and biomass pellets are the key in successful completion of trial studies.

The trials were conducted initially with one mill (EF), in which 2% torrefied biomass pellets were mixed with coal and then gradually increased to 5% in one mill. Additional thermocouples were also installed at mill CD and mill EF, close to the inlet of the mill. Mill/Steam inerting system was checked and kept ready for any eventuality. Enclosed storage shed with concrete floor for biomass pellet storage is under preparation.

The following are the important points in successful completion of biomass co-milling and co-firing trials with coal.

- During the entire biomass co-firing trials, the mill inlet temperature was maintained between 180°C to 220°C with $\pm 10^\circ\text{C}$ and mill outlet temperature was maintained between 55 °C to 65°C with -5°C and +10 °C . The boiler load was varying between 200 to 250 MW.
- The volatile matter in biomass pellets (~17%) is as recommended by MoP for ball & tube mills. The volatile matter in the coal (21%) is moderate which is ideal for co-milling in the ball & tube mill. Composition similar to current biomass pellets shall be procured in future also for continuous co-firing in the TPS.
- It is recommended to conduct mill erosion studies with biomass co-milling with coal in one (01) mill for 3 to 6 months' duration and then implement the same in other mills.
- After continuous firing for 3 to 6 months' duration furnace shall be inspected to observe any slagging or fouling within the furnace walls, SH and RH sections and bottom ash area.
- Based on the data analysis, it is observed that there is increase in flue gas APH outlet temperature and mill current consumption. These need to studied further while continuously firing biomass with coal.

During entire test duration the team of Fuel, Operation & maintenance and C&I have worked synergistically (day and night) for successful completion of the activity which was desired by Management and Nation Mission.



11/12/24, 5:53 AM

Email

Annexure-IV

Email

Yashna Gupta

Purchase Order No. 44/CE/PLG/GENL-30 dated 10.05.2023 for supply and delivery 19.3 Lakh MT agro residue based Torrefied Biomass Pellets to HPGCL Thermal Power Plants.

From : Yashna Gupta <xenplgp1.pkl@hpgcl.org.in>

Mon, Nov 11, 2024 01:04 PM

Subject : Purchase Order No. 44/CE/PLG/GENL-30 dated 10.05.2023 for supply and delivery 19.3 Lakh MT agro residue based Torrefied Biomass Pellets to HPGCL Thermal Power Plants.

 2 attachments

To : CAQM NCR <caqm-ncr@gov.in>, National Biomass Mission <md-biomass-power@gov.in>

Cc : R K Verma <dirtech2@hpgcl.org.in>, Parveen Arora <ceplg@hpgcl.org.in>, V K Dhiman <seplg.pkl@hpgcl.org.in>

Respected Sir,

In reference to the subject cited Purchase Order (PO), it is intimated that an amendment to the PO has been issued vide letter dated 07.11.2024 (copy attached), with the approval of Worthy CM/Haryana.

This is for your kind information, please.

Regards,

Xen/Planning-I,
HPGCL, Panchkula.

 **DA Memo 236.pdf**
3 MB

 **Ammendments in PO- 07.11.2024**
698 KB

 HPGCL HARYANA POWER GENERATION CORPORATION LIMITED CERTIFIED COMPANY	HARYANA POWER GENERATION CORPORATION LIMITED Regd. Office – C-7, UrjaBhawan, Sector-6, Panchkula Corporate Identity Number: U45207HR1997SGC033517 Website: www.hpgcl.org.in E-mail- ceplg@hpgcl.org.in
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From

Chief Engineer/Planning,
HPGCL, Panchkula.

To

M/s. Beyond Drilling and Exploration Private Limited,
3A/89, Ground Floor, NIT, Faridabad (Haryana) - 121001

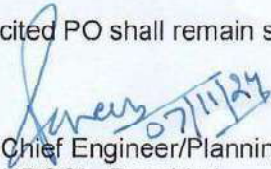
Memo No: 605 /Ch-156 /CE/PLG/Technical Issues-294 /vol-V
Dated: 07.11.2024

Subject: Amendment in Purchase Order (PO) No. 44/CE/PLG/GENL-30 Dated 10.05.2023 for procurement of 19.3 Lakh MT Torrefied Biomass Pellets for a period of seven (07) years.

The following Amendment is hereby issued w.r.t. Clause No. "C" & "E" at Page no. 2 of subject cited PO:-

- The firm may procure paddy straw/parali directly from the farmers/aggregators instead of Agriculture and Farmers Welfare Department Portal, Haryana retrospectively and documentary evidence in the form of "certificate from Assistant Agriculture Engineers at District Level that procurement has been made from Haryana" shall be acceptable.*
- The firm may procure paddy straw from any of the districts of Haryana instead of allocated districts as per HAREDA order dated 02.01.2023 retrospectively.*

All other clauses/ terms & conditions of the subject cited PO shall remain same.


Chief Engineer/Planning,
HPGCL, Panchkul.



Beyond Drilling & Exploration Pvt Ltd

To
The Chief Engineer
HPGCL
Planning
Haryana

Dated 13th June 2024

Subject: Flexibility for precuring Parali (Rice Straw) from any District of Haryana for supply of Torrefied Biomass Pellets to HPGCL Thermal Power plants.

Dear Sir,

Reference to the PO no 44/CE/PLG/GENL-30 dated 10th May 2023 issued to us to supply approx. 20 Lacs tons of Torrefied Biomass Pellets in 7 years where there is a clause E which states as under.

- E. The firm will comply with HAREDA order dated 02.01.2023 regarding service areas for procurement of paddy straw in the State. The detail of service areas is as under:
- a) **PTPS Panipat** : Karnal and Kaithal districts
 - b) **DCRTPP Yamunanagar**: Yamunanagar, Ambala and Panchkula Districts
 - c) **RGTPP Hisar**: Hisar, Fatehabad and Sirsa districts

Our existing plants are at Barwala Hisar, Asand Karnal, and Daulatpur Yamuna Nagar and to collect the rice straw it is very difficult to segregate the districts as there are many districts adjoining to our location specifically at Asand and Barwala where the nearby districts are Jind, Panipat, Sonipat etc, also since the supply of final product is to Haryana Power Generation which is a Haryana government entity, we request to please give us flexibility to procure paddy straw from any district of Haryana for this very purchase order.

This is for your information and obliged please.

Thanking you **For BEYOND DRILLING AND EXPLORATION PVT LTD,**

For Beyond Drilling and Exploration Pvt. Ltd.
Rashmi
Director



RASHMI KIKAN- DIRECTOR,

CC HEREDA Haryana



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power



थर्मल पावर प्लांटों में बायोमास के प्रयोग पर राष्ट्रीय मिशन (समर्थ)
National Mission on use of Biomass in Thermal Power Plants (SAMARTH)

Ref.: NBM/MD/24-25/11/052

Date: 08.11.2024

Subject: Procurement of Biomass Pellets to ensure farmers get remunerative price for the paddy stubble.

Dear Sir,

This is in reference to the Ministry of Power's revised biomass utilization policy for Thermal Power Plants (TPPs), CAQM direction No. 42 (effective from 01.04.2024), and subsequent notifications from the Ministry of Environment, Forest, and Climate Change (MoEFCC) regarding penalties for non-compliance (Ref. G.S.R. 522(E) dated 18.07.2023). Several communications from the National Biomass Mission, CEA, and MoP have previously highlighted the importance of compliance with these mandates.

The recent CAQM review on 21.10.2024, assessing biomass consumption in NCR TPPs up to 15.10.2024, has revealed significant shortfalls. It was further observed that recent orders placed through reverse auction at low prices have failed to provide supply to the TPPs even with sufficient ordered quantity. Therefore, **all TPPs are directed to adhere to the established benchmark prices given by MoP, in case the State has not notified their own benchmark price** (refer CAQM MUM para 7C dated 21.10.2024 enclosed)

The insufficient supply of biomass pellets will affect the mandated biomass cofiring leading to non-compliance, which will result in severe penalties as well as potential legal consequences.

Your immediate attention to these steps is crucial to achieving the required biomass co-firing mandates to ensure full compliance, as this issue is under strict scrutiny from the Hon'ble Supreme Court and other regulatory bodies. This will not only contribute to environmental sustainability but also ensure adherence to regulatory compliance.

Yours Sincerely

[Signature]
08.11.2024.

(Satish Upadhyay / सतीश उपाध्याय)

Mission Director/ मिशन निदेशक

Copy To,

Head of Plant, All NCR TPPs

MD, TSPL

MD, NPL

MD, APRAAVA

CMD, PSPCL

CMD, HPGCL

CMD, NTPC

All Nodal Officers of NCR TPPs

Member (Technical), CAQM

Enclosure,

CAQM MOM dtd 21.10.2024



F. No.11/86/2017-Th.II (C.No 238797)

Government of India

Ministry of Power

Shram Shakti Bhawan, Rafi Marg,
New Delhi, dated the 18th November, 2024.

To,

1. The Chief Secretary, Government of Punjab.
2. The Chief Secretary, Government of Haryana.
3. The Chief Secretary, Government of Uttar Pradesh.
4. The Chief Secretary, Government of Rajasthan.
4. Chairperson, CEA
5. MDs of Power Plants in NCR and adjoining areas.
6. Mission Director, SAMARTH Mission.

Subject: Price Benchmarking of Torrefied Biomass Pellets for National Capital Region (NCR)- reg.

In order to promote and develop sustainable supply chain of biomass pellets and to enable faster pellet procurement by power utilities, Ministry of Power (MoP) vide letter No.11/86/2021-Th.II dated 16th June, 2023 issued 'Modification of Revised Policy for Biomass Utilization for Power generation through Co-firing in Coal based Power Plants'. In pursuance of Para 2(b) of the above policy dated 16.06.2023, a Committee on price benchmarking of biomass pellets was constituted on 22nd June, 2023 to carry out region-wise price benchmarking of biomass pellets in order to accelerate the capacity addition of pellet manufacturing and to address the issue of existing volatility of raw biomass prices.

2. In this regard, the Price benchmarking Committee carried out study of **torrefied** biomass pellets for National Capital Region (NCR) and submitted its report with recommended benchmark price for NCR. As per the recommendation of the Committee, biomass fuel price has been specified for a period of one year w.e.f. the date of issue of this letter. The benchmark prices for torrefied biomass pellets in the NCR have been derived as **Rs 2.58/1000 kcal**. The price specified is excluding GST & transportation cost

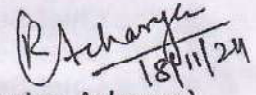
(Signature)

at the pellet manufacturing plant site. The torrefied pellets shall have moisture content below 14% and GCV between 3400-5000 kcal/kg with volatile content below 22%.

3. The concerned TPPs may be advised to adhere to the above-mentioned benchmark price of torrefied biomass pellets and to take necessary action in this regard.

4. This issues with the approval of Hon'ble Minister of Power and Housing & Urban Affairs.

Yours sincerely


18/11/24

(Chittaranjan Acharya)

Under Secretary to the Government of India

Tele: 23719710

Copy to:

- (i) PS to Hon'ble Minister of Power and Housing & Urban Affairs.
- (ii) PS to Hon'ble MoS for Power & NRE
- (iii) Sr PPS to Secretary (Power)
- (iv) PPS to AS(SN)
- (v) All Joint Secretaries/JS&FA/Chief Engineer, Ministry of Power
- (vi) In-charge, NIC, Ministry of Power- with a request to upload this document on the website of MoP.

Copy for information:

- (i) Secretary, Ministry of Environment, Forest & Climate Change
- (ii) Secretary, Ministry of Petroleum and Natural Gas
- (iii) Secretary, Ministry of Agriculture and Farmer Welfare.
- (iv) Chairperson, Commission for Air Quality Management in NCR and adjoining areas.

Report of the Committee constituted by the Commission on 21.03.2025 for examining the issues under Rule 5 of the Environment (Crop Residue Utilization by TPPs) Rule 2023 – reg.

Background

1. Paddy stubble burning continues to pose a serious environmental challenge and remains a significant contributor to the deterioration of air quality in the Delhi National Capital Region (NCR). Given the magnitude and recurring nature of the problem, the Commission has been consistently examining sustainable, long-term and scalable mitigation measures. One such key intervention, *inter alia*, involves the ex-situ utilization of paddy straw through co-firing of biomass pellets in coal-based Thermal Power Plants (TPPs) as an alternative fuel source to partially substitute coal consumption.
2. In order to promote the use of biomass pellets, the Ministry of Power (MoP), Central Electricity Authority (CEA), issued an Advisory dated 24.11.2017 (**Annexure-1**) to all coal-based TPPs in India, including Central, State and Public and Private sector Power Utilities. The Advisory stipulated that such plants shall endeavour to use a 5–10% blend of biomass pellets, primarily derived from agro-residues, along with coal.
3. The advisory was issued based on 'Policy for Biomass Utilization for Power Generation through Co-firing in Pulverised Coal Fired Boilers' of MoP, GoI circulated among all the Power Plants/ Utilities (public and private), State Governments, Power Equipment Manufacturers and other stakeholders on 17.11.2017. The policy amended from time-to-time to strengthen implementation and compliance mechanism, vide Revised policy dated 08.10.2021, clarification dated 07.04.2022, addendum to the policy dated 03.05.2023 and Modified Revised Biomass Policy dated 16.06.2023.

4. The Commission also actively pursued the matter of ex-situ utilization of stubble-based biomass pellets in TPPs located within a 300 km radius of Delhi, engaging with the State Governments of Punjab, Haryana and other NCR States. The urgency and criticality of establishing and sustaining an efficient biomass supply chain were strongly impressed upon the concerned State Governments to ensure the viability and operational success of this ex-situ model.
5. The issue was deliberated extensively during multiple meetings held in 2020 and 2021 with State Governments, Departments of Central Ministries, NTPC and representatives of various TPPs. These deliberations focused on the technical feasibility, procurement modalities, pricing mechanisms and operational integration of biomass co-firing in TPPs. It was concluded that paddy straw-based biomass pellets (both torrefied and non-torrefied) can be successfully utilized for co-firing up to a blend ratio of 5–10% of total fuel requirements, subject to adherence to specifications and modalities adopted by NTPC, with suitable refinements wherever required.
6. Thereafter, the Commission issued an Advisory dated 28.07.2021 (**Annexure-2**) to the State Governments of Punjab, Haryana, and Uttar Pradesh regarding “Ex-situ stubble management for tackling the problem of stubble burning,” specifically emphasizing utilization of paddy straw in TPPs as a structured and scalable intervention.
7. Pursuant to the above deliberations and based on inputs from concerned stakeholders, including the Power Departments of respective States and confirmation of technical feasibility and implementation of co-firing by NTPC in its plants, the Commission issued Direction No. 42 dated 17.09.2021 (**Annexure-3**), mandating co-firing of biomass pellets up to 5-10% by substituting coal with immediate effect.

8. The progress of compliance has since been continuously monitored and reviewed by the Commission through a series of meetings, including the meetings held on 15.03.2022, 14.09.2022, 25.04.2023, 22.09.2023, 10.01.2024, 21.02.2024, 13.03.2024, 20.06.2024, 30.08.2024, 08.10.2024, 21.10.2024, and 22.01.2025. These meetings involved TPPs and stakeholder agencies such as Sustainable Agrarian Mission on use of Agri-Residue in TPPs (SAMARTH) and officials from the MoP/CEA.
9. During these reviews, plant-wise performance gaps were examined based on inputs received from SAMARTH and the concerned TPPs. Specific observations, corrective measures and operational requirements were communicated to the respective TPP representatives. Additionally, SAMARTH, CEA and the MoP were periodically requested to undertake necessary facilitative and corrective actions to ensure effective compliance.
10. Simultaneously, in order to strengthen the biomass pellet supply chain and improve the compliance status of TPPs, the MoP and SAMARTH initiated several facilitative measures. These included the introduction of a 'Revised Rate Contract' mechanism dated 06.01.2023 and 'Price Benchmarking' for procurement of non-torrefied and torrefied vide communications dated 23.08.2023, 08.11.2023, 03.10.2024 and 18.11.2024.
11. Further, the MoP, vide communication dated 14.05.2024, clarified that for projects established through competitive bidding under Section 63 of the Electricity Act, 2003, wherein fuel cost pass-through is permitted under the Power Purchase Agreement (PPA), the cost of biomass pellets shall also be allowed as a pass-through component in the Energy Charge Rate.
12. The Commission, through Advisory No. 11 dated 30.08.2023 (**Annexure-4**) and subsequent communications, reiterated the need for adoption of the benchmark pricing mechanism to substantially scale up biomass co-firing in TPPs, thereby ensuring effective implementation of Statutory Direction No. 42 in its true letter and spirit.

13. The Ministry of Environment, Forest and Climate Change (MoEF&CC), vide G.S.R. 499(E) dated 11.07.2023 (**Annexure-5**), read with Corrigendum G.S.R. 522(E) dated 18.07.2023, notified the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023. The said Rules mandate that all coal based TPPs located in NCR and adjoining areas shall mandatorily use a minimum 5% blend of pellets or briquettes made of crop residue along with coal, thereby providing statutory backing to biomass co-firing requirements.

Regulatory Framework and Actions Taken Prior to Enforcement of the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023

14. In addition to the Commission's periodic review of biomass co-firing, progress towards compliance with the co-firing mandate was also reviewed by various authorities of the Central and State Governments, including the MoP, Ministry of New and Renewable Energy (MNRE), the concerned State Power Departments and the Inter-Ministerial Committee (IMC) constituted by the Central Government.
15. Despite the existence of policy frameworks and advisories since 2017 and the issuance of mandatory co-firing directions in 2021 for TPPs located within a 300 km radius of Delhi, the performance of several TPPs remained unsatisfactory. Such underperformance assumed greater significance in view of the direct and substantial impact of these TPPs on air quality in the Delhi-NCR region.
16. In the meeting held on 14.09.2022, the Secretary, MoP, directed all concerned TPPs to initiate necessary measures for enhanced collection and utilization of paddy straw for biomass pellet production for the season of 2022 itself. Subsequently, in a meeting convened by the MoEF&CC on 22.09.2022, serious concerns were expressed regarding the low levels of

biomass pellet consumption by the concerned TPPs. The matter was further deliberated in stakeholder meetings organized by MoP on 03.10.2022 and 15.02.2023. During these review meetings, several issues relevant to the non-compliance and sub-optimal performance of the concerned TPPs and associated agencies were examined and deliberated upon, as outlined below:

- a) The tendering efforts undertaken by TPPs in Punjab and Haryana (except NTPC) were found to be inadequate. The respective State Governments were advised to address deficiencies contributing to non-compliance.
- b) The concerned authorities were advised to devise advance procurement mechanisms for biomass pellets, particularly for TPPs under Punjab State Power Corporation Limited (PSPCL). It was also discussed that the Principal Secretaries (Environment) of Governments of Haryana, Punjab and Uttar Pradesh may be designated as Nodal Officers for monitoring progress and utilization of biomass co-firing in their respective States.
- c) Owing to persistently poor progress in co-firing by Haryana Power Generation Corporation Limited (HPGCL) at its three TPPs viz. M/s Deenbandhu Chhotu Ram Thermal Power Plant (DCRTPP), Yamunanagar, Haryana, M/s Panipat Thermal Power Station (PTPS), Panipat Haryana and M/s Rajiv Gandhi Thermal Power Plant (RGTPP), Hisar Haryana, the concerned authorities were directed to initiate immediate short-term tendering for procurement of biomass pellets and to establish pellet manufacturing units within plant premises to ensure assured supply.
- d) The approach adopted by Talwandi Sabo Power Limited (TSPL), Mansa, towards biomass co-firing was reviewed and was directed to

establish its own pellet manufacturing plant(s) to ensure timely and sustained compliance with the mandated co-firing targets.

e) The Government of Uttar Pradesh informed that biomass pellets had been incorporated into its Biofuel Policy (2022) and that initiatives had already been undertaken to secure pellet procurement for co-firing purposes.

f) It was observed that pellet procurement through tendering remained substantially far from satisfactory levels. Accordingly, TPPs were strongly advised to establish their own pellet manufacturing plants and to expedite short-term procurement processes to secure at least 5% co-firing. Concerned agencies were also advised to expedite subsidy schemes and financial facilitation mechanisms to support pellet manufacturing plants.

17. In furtherance of the above, the MoP reiterated the importance of biomass co-firing in TPPs *vide* communication dated 06.10.2023. Subsequently, the Commission, *vide* letter dated 12.10.2023, requested MoEF&CC to convene an Inter-Ministerial Meeting to impress upon the concerned TPPs regarding the necessity of optimally utilizing the benchmark pricing mechanism particularly with respect to non-torrefied pellets, to secure adequate procurement and ensure compliance with the mandated co-firing targets.
18. Meanwhile, the Department of Power, Government of Punjab *vide* communication dated 09.11.2023 submitted a status report to MoP, under intimation to the Commission, regarding progress of co-firing in TPPs located in the State. The Department expressed concerns regarding additional costs incurred by TPPs due to biomass co-firing and the consequent implications of cost pass-through. The report also referred to co-firing of torrefied biomass pellets at TSPL–Vedanta and suggested the establishment of biomass-based power plants under a Viability Gap Funding (VGF).

19. Upon examination, the Commission observed that proposals for establishment of biomass-based power plants under VGF were at a preliminary stage and could not serve as a substitute for mandatory co-firing in existing coal-based TPPs. The Commission further did not concur with the cost pass-through projections submitted by the Government of Punjab/PSPCL in relation to torrefied pellets, observing that such estimates appeared to be based on limited demand conditions and did not adequately factor in Life Cycle Assessment. The Commission further noted that initial higher costs are likely to be offset over time through improved availability, development of a robust supply chain, reduction in carbon footprint and progress towards Net-Zero emissions, aspects which had not been adequately factored in by the Government of Punjab.
20. The Commission forwarded the above communication of Government of Punjab dated 09.11.2023 to the MoP and the MoEF&CC on 20.11.2023 for appropriate consideration. Data furnished by the MoP indicated that the concerned TPPs collectively co-fired 7,398 MT (FY 2021–22), 13,802 MT (FY 2022–23), and 65,578 MT (FY 2023–24) up to December 2023, of crop residue-based biomass pellets, against a cumulative target of 18.03 lakh MT. The substantial shortfall clearly indicated inadequate compliance.
21. The matter was also considered by the Hon'ble Supreme Court in M.C. Mehta v. Union of India W.P. (Civil) No. 13029 of 1985, wherein the Hon'ble Court, *vide* order dated 13.12.2023 (**Annexure-6**), inter alia, directed the MoP to ensure that all TPPs within a range of 300 km of Delhi and all captive TPPs implement the CAQM directions for co-firing a minimum of 5% biomass along with coal.
22. The Commission, *vide* letter dated 26.12.2023 (**Annexure-7**) informed the Secretary, MoP, that despite repeated directions and follow-ups, three TPPs of HPGCL in the State of Haryana and TSPL, Mansa, had not commenced regular biomass co-firing and further requested appropriate intervention in

the matter. The MoP thereafter sought an Action Taken Report from the concerned TPPs vide communication dated 02.01.2024. The Commission reviewed the compliance status in the meeting held on 10.01.2024 and recorded that certain TPPs exhibiting persistently poor or average performance were required to immediately rectify deficiencies and ensure adherence to mandated targets. It was categorically reiterated that failure to achieve the prescribed co-firing targets would attract imposition of Environmental Compensation (EC) in accordance with the notified schedule under the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023, without prejudice to any other legal action.

23. The Commission thereafter escalated the matter to the Chief Secretaries of Punjab, Haryana and Uttar Pradesh vide communications dated 09.02.2024 and 13.02.2024 (**Annexure-8**), seeking appropriate cognizance and intervention at the highest administrative level to ensure compliance by the concerned TPPs. Additionally, vide communication dated 12.02.2024, the Commission reiterated to the Secretary, MoP the necessity of establishing biomass pellet manufacturing facilities in the vicinity of TPPs and emphasized the requirement of close and continuous monitoring of biomass co-firing progress.
24. In view of the persistently poor performance of four (04) TPPs, the Commission, on 15.02.2024, issued Notices to three (03) TPPs of HPGCL, namely DCRTTPP, PTPS and RGTPP as well as to TSPL. The Notices were issued prior to consideration of action under Section 14 of the Commission for Air Quality Management in National Capital Region and Adjoining Areas Act, 2021, for non-compliance or contravention with Direction No. 42 relating to mandatory co-firing of paddy straw-based biomass in coal-based TPPs located within a 300 km radius of Delhi.
25. Further, communications dated 21.02.2024 (**Annexure-9**) were issued to the Plant Heads/In-charges of the remaining seven (07) TPPs, seeking submission of detailed action plans for achieving compliance with the

mandated co-firing requirements. In view of the performance commitments furnished by these seven (07) TPPs up to January 2024, the Commission, at that stage, considered not to issue Notices to them.

26. Detailed replies and action plans were submitted by all concerned TPPs pursuant to the Notices and communications issued by the Commission. These included responses from TSPL-Vedanta, dated 04.03.2024; PTPS – Panipat, DCRTTP-Yamunanagar and RGTPP-Hissar dated 07.03.2024, 09.03.2024 & 11.03.2024 respectively; NTPC Dadri & Aravali Power Company Private Limited (APCPL), letter dated 12.03.2024; Guru Gobind Singh Super Thermal Power Plant (GGSSTP) PSPCL, Ropar & Guru Hargobind Thermal Power Plant (GHTPP), Lehra Mohabbat letter dated 06.03.2024; Harduaganj Thermal Power Station (HTPS), Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited (UPRVUNL) letter dated 28.02.2024; Nabha Power Limited-L&T (NPL), letter dated 24.02.2024 and Jhajjar Power Limited (JPL), Apraava, vide letter dated 22.02.2024. The progress was reviewed by the Commission on 21.02.2024 and 13.03.2024 wherein it was observed that, cumulatively, only 4.83% of the overall co-firing target for 2024 had been achieved by eleven (11) TPPs up to February 2024, which was grossly inadequate and not at all satisfactory. The Commission further stressed serious concern regarding the performance of five TPPs, namely TSPL–Mansa, NPL–Rajpura, and the three (03) HPGCL plants. It was categorically reiterated that continued non-compliance would attract levy of EC in the ensuing financial year, without prejudice to any other appropriate legal action.
27. As a consequence of the above regulatory interventions, a marginal improvement in co-firing was observed. The concerned TPPs collectively achieved 2,58,772 MT of biomass co-firing during FY 2023–24 against an overall target of 18.03 lakh MT. However, this level of achievement remained substantially below the mandated requirement. The Commission, *vide* communication dated 22.04.2024 apprised the MoP of the progress status, highlighting specific concerns regarding the performance of the

following five TPPs namely NPL– Rajpura, TSPL– Mansa, RGTPP– Hisar, DCRTTPP– Yamunanagar and PTPS. At the same time, the Commission noted encouraging progress made by HTPS and GHTPP– Lehra Mohabbat.

28. During 2024, overall implementation was further assessed through a High-Level Joint Inspection conducted by senior officials of the Commission, the CEA, MoP and SAMARTH. The inspection covered 10 out of 11 identified TPPs located in Haryana, Punjab and Uttar Pradesh to review on-ground compliance with the Commission's directions and the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023.
29. Upon detailed examination of the replies submitted by the four (04) TPPs against the Notice dated 15.02.2024 and the action plans submitted by the remaining seven (07) TPPs, the Commission forwarded its observations to SAMARTH under intimation to the MoP on 10.05.2024, identifying issues requiring corrective action and facilitative intervention. MoP updated the progress status vide communication dated 29.05.2024. Based on the findings of the Joint High-Level inspection, the Commission reiterated specific action points to MoP and SAMARTH *vide* communications dated 03.06.2024 and 24.07.2024 under intimation to the concerned State Pollution Control Boards (SPCBs). The Commission emphasized the need for strict compliance with the 2023 Rules by fostering co-firing efforts through intensified monitoring, scaling up of production and utilization, strengthening of supply chains, and augmentation of manufacturing capacity for both torrefied and non-torrefied biomass pellets.
30. Thereafter, MoP, CEA and SAMARTH initiated several measures, some of which required action at the level of the concerned States and TPPs. In this regard, the MoP vide letter dated 18.11.2024 (**Annexure-10**) notified the benchmark price for torrefied biomass pellets for the NCR region and reiterated provisions relating to cost pass-through under the Electricity Act, which had been clarified earlier vide communication dated 14.05.2024.

31. In light of the progress made, the Commission convened further review meetings on 21.10.2024 and 22.01.2025 and issued specific action points to ensure compliance with Direction No. 42 and the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023. During the review meeting dated 21.10.2024, it was clearly reiterated that failure to comply with statutory mandates would attract coercive action in accordance with applicable provisions. Subsequently, a significant increase in biomass utilization was observed, with total co-firing reaching 12,97,802 MT during FY 2024–25 against a target of approximately 22.64 lakh MT. A detailed year-wise progress statement (FY 2021–22 to FY 2024–25) is **(Annexure-11)**.
32. Upon completion of FY 2024–25, a joint review was undertaken by MoP, CEA and SAMARTH with respect to eleven (11) TPPs. It was observed that five (05) TPPs namely, JPL (Apraava Energy), NTPC–Dadri, Indira Gandhi Super Thermal Power Station (IGSTPS), Jhajjar, GGSSTPP, Ropar (PSPCL), and NPL, Rajpura had achieved the stipulated co-firing targets under the Rules. However, six (06) TPPs, namely RGTPP – Hisar (HPGCL), DCRTPP – Yamunanagar (HPGCL), PTPS - Panipat (HPGCL), GHTPP – Lehra Mohabbat (PSPCL), HTPS (UPRVUNL) and TSPL – Mansa have failed to achieve the prescribed co-firing mandates.
33. Accordingly, SAMARTH furnished details to the Commission regarding EC applicable to the aforesaid six non-compliant TPPs in terms of the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023. As per Rule 3 of the said Rules, TPPs located in NCR and adjoining areas were required to co-fire more than 3% crop residue-based biomass pellets during FY 2024–25 and at least 5% from FY 2025–26 onwards. The Rules prescribe graded EC for failure to achieve the stipulated targets from FY 2024–25 onwards.
34. Rule 5 of the said Rules empowers the Commission to grant relaxation to non-compliant TPPs on a case-to-case basis, in consultation with the CEA

and the Central Pollution Control Board (CPCB), where non-compliance is attributable to circumstances beyond the control of the concerned TPPs. In order to examine representations, if any, seeking relaxation from EC under Rule 5, the Commission constituted a Committee on 21.03.2025. The Committee was mandated to assess such representations in accordance with the provisions of the Rules and submit its recommendations to the Commission for appropriate consideration.

Examination of cases in terms of Rule 5 by the Committee

35. The Committee constituted by the Commission vide Order dated 21.03.2025 (**Annexure-12**), comprising representatives of the Commission, CEA, SAMARTH and CPCB was mandated to examine representations submitted by TPPs seeking relaxation under Rule 5 of the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023. Pursuant thereto, the Committee granted personal hearings to RGTPP – Hisar (HPGCL), DCRTPP – Yamunanagar (HPGCL), PTPS – Panipat (HPGCL), GHTPP – Lehra Mohabbat (PSPCL), HTPS (UPRVUNL) and TSPL – Mansa.
36. The Committee held detailed deliberations on 13.06.2025, 31.07.2025, 26.08.2025, 22.09.2025, 19.01.2026 and 20.03.2026 wherein performance data, compliance status, written submissions and grounds cited for relaxation were examined in depth. During its meetings held on 13.06.2025 and 31.07.2025, the Committee undertook a comprehensive review of the overall performance of all eleven (11) identified TPPs for FY 2024–25 vis-à-vis the statutory co-firing targets prescribed under the 2023 Rules. Particular attention was accorded to the six (06) non-compliant TPPs. The cases of TSPL and HTPS (UPRVUNL) were examined in detail. The Committee also evaluated the EC liable to be imposed for non-compliance during FY 2024–25 in accordance with the methodology prescribed under the Environment (Utilisation of Crop Residue by Thermal Power Plants)

Rules, 2023. The plant-wise computation of EC, based on verified shortfall and applicable rates, is tabulated below:

S.N.	Name of the Plants	Environmental Compensation (EC) for 2024-25			
		Biomass Co-fired in % consumption	Biomass Pellets % Required @ to be co-fired to be complied with	Environmental Compensation (EC) (in Million Rs.)	
				As per E(GT)	As per ESO (Energy injected into grid)
1	JPL, Jhajjar (Apparva Energy)	4.11 %	>3 %	0.0	0.0
2	NTPC-Dadri	3.79 %		0.0	0.0
3	IGSTPS-APCPL, Jhajjar,	3.66 %		0.0	0.0
4	GGSTP, Ropar	3.10 %		0.0	0.0
5	NPL (L&T), Rajpura	3.04 %		0.0	0.0
6	Harduaganj TPS.	2.05 %		27.40	24.63
7	RGTPP. Hisar	2.07 %		55.51	51.80
8	GHTPP Lehra Mohhabbat	2.00 %		48.66	44.52
9	PTPS, Panipat	1.86 %		89.79	80.96
10	DCRTPP, Yamuna Nagar	1.44 %		66.87	60.78
11	TSPL, Mansa	0.36 %		330.26	306.91
Total		-		618.49	569.61

*E(GT) – Electricity Generated at Generator Terminal;

ESO – Energy Sent Out or Ex-Bus Generation.

37. The Committee decided that opportunity of personal hearing may be provided to all non-compliant TPPs. Accordingly, opportunity of personal hearing was given to all 6 non-complied TPPs. The Committee heard TSPL-Mansa and HTPS of UPRVUNL on 26.08.2025 and 3TPPs of HPGCL and Lehra Mohabbat TPP of PSPCL on 22.09.2025. Upon consideration of the written and oral submissions and relevant data made / presented during the hearings, the Committee recorded that the following six TPPs remained non-compliant with the prescribed co-firing targets under the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023:

- i. RGTPP – Hisar (HPGCL);
- ii. DCRTPP – Yamunanagar (HPGCL);
- iii. PTPS – Panipat (HPGCL);
- iv. GHTPP – Lehra Mohabbat (PSPCL);
- v. HTPS (UPRVUNL); and
- vi. TSPL – Mansa.

38. The Committee further observed that the explanations and grounds advanced by the aforesaid TPPs were insufficient to demonstrate that the circumstances leading to non-compliance were beyond their reasonable control within the meaning of Rule 5 of the 2023 Rules. The material placed on record did not establish any force majeure-like situation or systemic impediment attributable to external factors that could justify relaxation of the statutory mandate. For the sake of brevity, the detailed submissions of the six non-compliant TPPs are not reproduced herein, as substantially similar grounds were reiterated in response to the Show Cause Notices subsequently issued by the Commission for imposition of EC under the 2023 Rules. The principal contentions raised by the TPPs, along with the Committee's observations thereon, are discussed in the ensuing paragraphs.
39. In order to afford an additional opportunity consistent with the principles of natural justice, the Commission issued Show Cause Notices dated 23.12.2025 to all six (06) non-compliant TPPs. The Notices were issued after due deliberations and examination of replies / reasons submitted by the TPPs before the Committee. The TPPs were called upon to show cause as to why EC should not be imposed in accordance with the provisions of the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023; and why action should not be initiated against the responsible person(s) under Section 14 of the Commission for Air Quality Management in National Capital Region and Adjoining Areas Act, 2021. In response, written replies were received from the concerned TPPs. The replies were placed before the Committee for detailed consideration and for rendering

its recommendations in accordance with the 2023 Rules. During the subsequent deliberations, the following aspects emerged for consideration:

A. Harduaganj Thermal Power Station (HTPS) – UPRVUNL

- I. In respect of HTPS, the Committee examined the submissions made vide letter No. 08-CE(Fuel)/DT/ dated 05.01.2026, wherein the following grounds were broadly cited to justify non-compliance with the mandated co-firing targets under the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023:
 - i. **Force majeure-like conditions (July–August 2024):** Severe monsoon conditions allegedly resulted in excessive moisture in biomass pellets (being hydrophilic in nature), leading to deterioration of Gross Calorific Value (GCV) and operational difficulties in handling and feeding.
 - ii. **Technical constraints:** Shutdowns, breakdowns and maintenance of units during the year.
 - iii. **Kanwar Yatra restrictions:** Temporary road blockages affecting transportation and delivery of biomass.
 - iv. **Quality and supply issues:** Alleged poor quality and inadequate supply by vendors.
 - v. **Procurement-related challenges:** Contract expiry, limited supply under fresh orders and gaps in quality and logistics.
 - vi. **Litigation constraints:** HTPS contended that a fresh tender floated in July 2024 was stalled due to proceedings in Writ-C No. 34248 of 2024 before the Hon'ble High Court of Judicature at Allahabad.

- II. **Issue of Exemption for 660 MW unit:** HTPS also sought exemption from co-firing in its new 660 MW unit, citing subsisting guarantee/warranty obligations of the Original Equipment Manufacturer (OEM) and technical concerns including chlorine content in biomass, ash fusion temperature, impact on boiler efficiency, auxiliary power consumption and intermittent non-availability of biomass.
- III. The technical issues were examined by the CEA. Initially, the request for exemption was rejected by CEA vide communication dated 08.07.2024. However, upon re-examination limited to contractual obligations arising out of OEM warranty conditions, CEA granted a one-time exemption up to 31.01.2025 vide communication dated 08.11.2024, strictly in respect of the 660 MW unit.

Examination of Grounds Raised

After detailed deliberations, the Committee recorded the following findings:

- i. The Committee noted that the exemption, if any, was HTPS - specific and did not extend to the remaining three of the plant. CEA had clarified that chlorine levels in biomass were within permissible boiler limits. HTPS continued to generate electricity during the year, thereby undermining the plea of persistent shutdowns or breakdowns. It was further reiterated that any technical relaxation, even if granted by CEA does not dilute or alter the statutory co-firing targets prescribed, nor does it absolve liability for EC in case of non-achievement of the annual mandate.
- ii. The Committee noted that HTPS had initially demonstrated commitment towards co-firing and had shown appreciable progress up to mid-FY 2023-24, as acknowledged in the communication issued by the MoP dated 06.10.2023. However,

performance declined significantly thereafter. At the close of FY 2024–25, HTPS achieved only about **2.05% co-firing of annual coal consumption**, as against the prescribed target of more than 3%. During multiple review meetings convened by the Commission during 2023-24 and during the visit of the High-Level Joint Committee (comprising representatives of the Commission, CEA, and SAMARTH) during 2024–25, HTPS was specifically advised to ensure advance procurement planning and assured availability of biomass pellets in order to comply with the notified schedule.

- iii. **Seasonal factors (Monsoon and Kanwar Yatra):** These were temporary and seasonal disruptions. HTPS failed to demonstrate why such short-term constraints could not be compensated through enhanced co-firing during the remaining months of the year.
- iv. **Procurement and supply chain gaps:** HTPS did not establish that biomass pellet availability in the region was inadequate. It was noted that supply of non-torrefied pellets in the region was generally sufficient. The failure appeared attributable to lack of sustained procurement planning rather than systemic shortage.
- v. **Litigation plea:** Upon perusal of orders dated 20.01.2025, 28.02.2025, 10.03.2025, 01.04.2025, 07.04.2025 and 18.04.2025 in Writ-C No. 34248 of 2024 titled *M/s Rajan Construction Company vs. State of U.P. & Ors.*, it was evident that:
 - 1. No interim stay or restraint order was granted against the tender floated by HTPS.
 - 2. The Hon'ble High Court recorded absence of appearance on behalf of respondent authorities.

3. The writ petition was ultimately dismissed on merits on 18.04.2025.
- vi. Accordingly, the Committee found that there was no judicial embargo preventing HTPS from proceeding with procurement. Even assuming administrative uncertainty, HTPS failed to take timely legal recourse or seek clarification from the Court. Such inaction reflects lack of due diligence and seriousness in complying with the statutory mandate.
 - vii. **Comparative Performance:** The Committee observed that other similarly placed plants, including JPL (Apraava Energy), successfully undertook co-firing of non-torrefied pellets. This demonstrated that technical feasibility was not an insurmountable barrier.
 - viii. **Statutory Mandate Predating Exemption:** The obligation to achieve annual co-firing targets existed independently of and prior to the request for exemption of the 660 MW unit. HTPS was expected to factor projected coal consumption and ensure proportionate biomass procurement accordingly.
 - ix. **Deviation from Commitments:** The Committee recorded that HTPS's actual performance deviated materially from commitments previously furnished before the Commission.

Conclusion of the Committee (Harduaganj Power Station)

- i. Upon comprehensive consideration of the written / oral submissions and material placed on record, the Committee concludes that HTPS achieved only about 2.05% biomass co-firing during FY 2024–25 against the prescribed target of more

than 3%, thereby falling short of the statutory mandate under the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023.

- ii. The grounds cited by HTPS, including monsoon-related moisture issues, temporary transportation disruptions during Kanwar Yatra, shutdowns and maintenance activities, vendor-related quality and supply concerns, procurement gaps and pendency of Writ-C No. 34248 of 2024 before the Hon'ble High Court of Judicature at Allahabad, do not constitute circumstances beyond its reasonable control within the meaning of Rule 5. The material on record demonstrates that:
 - The seasonal disruptions were temporary in nature and could have been mitigated through advance planning and compensatory co-firing during other periods;
 - No judicial stay or restraint order operated against the HTPS's procurement process;
 - Biomass availability in the region was not proven as inadequate; and
 - Other similarly situated generating stations successfully undertook co-firing during the same period.
- iii. The limited exemption, even if, granted by CEA up to 31.01.2025 in respect of the 660 MW unit was expressly confined to OEM warranty considerations and did not dilute the statutory obligation to meet the annual co-firing target for HTPS for its other units. However, it was observed by the Committee that exemption as claimed w.r.t. 660 MW unit was already considered and granted for said period while determining annual co-firing target and calculation of environmental compensation accordingly.

- iv. The Committee further noted that the obligation to achieve the notified annual co-firing percentage is independent of internal procurement or administrative challenges. The circumstances placed on record indicate operational and managerial shortcomings rather than force majeure, legal impossibility or any prohibitive statutory restraint.
- v. The Committee also noted that, despite advising repeatedly to HTPS to establish in-house or proximate pellet manufacturing facilities, HTPS failed to comply with the same.
- vi. In view of the foregoing, the Committee found no ground to grant relaxation under Rule 5 for FY 2024-25. Accordingly, HTPS is liable for imposition of EC for the shortfall in biomass co-firing during the said financial year, as computed in accordance with the prescribed regulatory methodology.

B. Talwandi Sabo Power Limited (TSPL) – Mansa

- I. In respect of TSPL, Mansa, the representatives of TSPL submitted that the plant is equipped with a ball and tube mill configuration, for which torrefied biomass pellets are technically required for sustained co-firing operations. It was stated that regular supply of torrefied biomass pellets commenced from March 2024 and that TSPL has been consistently co-firing torrefied biomass pellets since 2024.
- II. TSPL submitted that it has adopted a diversified contracting framework comprising short-term (3-6 months), medium-term (12 months) and long-term (up to 60 months) supply arrangements. It was informed that seven long-term contracts (aggregating 61 months) were awarded to seven entities for supply of torrefied pellets, with projected cumulative supply of up to 7,30,000 MT by 2029. However, in certain cases, supply under the awarded contracts has

not yet commenced. In addition, six short to medium term contracts (3-12 months) have been awarded to other suppliers.

- III. In response to queries regarding discontinuation of co-firing after conducting the pilot project in 2022, TSPL clarified that the said pilot involved 50 MT of non-torrefied pellets and was discontinued due to technical incompatibility with the ball and tube mill system.
- IV. TSPL further submitted that:
- Approximately 75 vendors were engaged through the SAMARTH portal and multiple tenders were issued;
 - The plant operates under a 100% PPA with PSPCL, Government of Punjab;
 - Fuel-related decisions required concurrence of PSPCL, which had earlier raised objections to co-firing of non-torrefied pellets; and
 - Constraints relating to tariff adjustment and cost pass-through under the Electricity Act contributed to delays in regular co-firing.
- V. TSPL also submitted that owing to logistical and technical constraints affecting torrefied pellet availability, it undertook stubble management initiatives under its CSR programme, including awareness campaigns, distribution of bio-decomposer, recognition of progressive farmers and vendor partnerships targeting approximately 8 lakh MT biomass. It was claimed that such efforts contributed to reduction in stubble burning incidents in Mansa district.
- VI. Finally, TSPL highlighted its preparedness for FY 2025-26 and submitted that against a target of 3.86 lakh MT, it had already co-fired approximately 1.15 lakh MT of torrefied pellets by mid-August 2025. On this basis, TSPL requested that a one-time relaxation from imposition of EC for FY 2024-25 be granted in view of its subsequent improvement and proactive efforts.

Examination by the Committee

The Committee carefully examined the submissions and relevant records / data and observed that the technical configuration of the plant (ball and tube mill) was known since issuance of Direction No. 42 in the year 2021. Therefore, the requirement of torrefied pellets cannot be treated as an unforeseen circumstance arising during FY 2024-25. It was further noted that:

- i. **Delayed Augmentation of Supply Arrangements:** Although TSPL has now entered into multiple long-term and short-term contracts, substantial procurement and diversification efforts were initiated only in 2024, particularly after clarification regarding cost pass-through was issued by the MoP. The Committee observed that proactive augmentation measures could and ought to have been undertaken earlier.
- ii. **Availability of Torrefied Pellets:** The overall estimated availability of torrefied biomass pellets during FY 2024-25 was approximately 564 TPD (considering 60% CUF), whereas the requirement for achieving the annual target was approximately 1,423 TPD, leaving a shortfall of about 859 TPD. However, the Committee noted that since 2021 TSPL had been repeatedly advised by the Commission and concerned Ministries to facilitate capacity augmentation and explore establishment of its own torrefied pellet manufacturing arrangements to mitigate such shortages. TSPL did not demonstrate timely or sufficient action in this regard.
- iii. **Tariff Adjustment / PPA Constraints:** The Committee observed that issues relating to tariff adjustment, PPA terms or regulatory approvals do not absolve TSPL from complying with statutory mandates under the 2023 Rules. It was further noted

that despite raising tariff-related concerns, TSPL did not establish that it had pursued expeditious resolution before the appropriate regulatory forum in a time-bound manner.

- iv. **CSR Activities:** While appreciating the CSR initiatives undertaken by TSPL in relation to stubble management, the Committee observed that such measures cannot substitute compliance with the mandated co-firing requirements. Statutory compliance must be assessed strictly on the basis of actual biomass co-fired vis-à-vis prescribed targets.
- v. **Prior Correspondence and Advisory:** The Commission had on multiple occasions during 2022–2024, flagged TSPL’s lag in performance and sought specific action plans for augmentation of co-firing. A Notice was ultimately issued on 15.02.2024 due to continued non-compliance. The Committee observed that despite claimed unsuccessful co-firing pilot efforts undertaken in the year 2022 for non-torrefied pellets and subsequent successful co-firing in the year 2023, TSPL failed to initiate procurement and co-firing of torrefied pellets in timely manner to comply with mandate as per the Direction of the Commission and with the Rules notified in the year 2023.
- vi. **Subsequent Improvement in FY 2025–26:** The Committee acknowledged that TSPL has demonstrated improved performance during FY 2025-26. However, subsequent compliance cannot retrospectively cure non-compliance for FY 2024-25, particularly where the shortfall relates to a statutory annual mandate.

Conclusion of the Committee (TSPL–Mansa)

- i. Upon detailed consideration of the written and oral submissions of TSPL-Mansa and the material placed on record, the

Committee concludes that TSPL has failed to achieve the prescribed biomass co-firing target for FY 2024-25 and has not established the existence of any circumstance beyond its reasonable control within the meaning of Rule 5 of the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023.

- ii. The technical configuration of the plant (ball and tube mill) and the corresponding requirement of torrefied biomass pellets were known to TSPL since issuance of Direction No. 42 in the year 2021. The claimed necessity of torrefied pellets, therefore, cannot be treated as an unforeseen development arising during FY 2024-25. The material on record indicates that substantial augmentation of procurement and contracting arrangements was undertaken only during 2024, despite repeated instructions/ communications from the Commission during 2022-2024.
- iii. The constraints cited by TSPL including limited availability of torrefied pellets, logistical challenges, tariff adjustment issues and PPA-related approvals pertain to commercial and operational considerations falling within the management domain of TSPL. Such factors may indicate commercial difficulty but do not constitute legal impossibility, force majeure or any statutory prohibition preventing compliance. No material has been placed on record to demonstrate that compliance was rendered objectively impossible.
- iv. While the Committee acknowledges the CSR initiatives undertaken by TSPL towards stubble management and notes the improved co-firing performance during FY 2025-26. However, subsequent compliance or CSR measures cannot retrospectively offset the statutory shortfall for FY 2024-25.

Compliance with the mandated co-firing percentage is to be assessed strictly on the basis of actual biomass utilized vis-à-vis the prescribed annual target.

- v. The Committee also noted that, despite advising repeatedly to TSPL to establish in-house or proximate pellet manufacturing facilities, TSPL failed to comply with the same.
- vi. In view of the foregoing, the Committee is not satisfied that TSPL has made out a case for relaxation under Rule 5. Accordingly, EC is liable to be imposed for the shortfall in biomass co-firing during FY 2024-25. The EC computed strictly in accordance with the prescribed regulatory methodology is compensatory and deterrent in nature, intended to secure adherence to the statutory mandate.

C. Guru Hargobind Thermal Power Plant (GHTPP), PSPCL– Lehra Mohabbat

- I. In the case of PSPCL, it was observed that the GHTPP achieved approximately 2.00% biomass co-firing against the stipulated minimum target of 3% for the year 2024-25. GHTPP broadly submitted the following:
 - i. **Procurement Efforts:** GHTPP issued an e-tender dated 22.08.2024 for procurement of 200 MT per day biomass pellets for GHTPP. Pursuant to the tender, Purchase Orders (POs) were placed on four firms on 22.11.2024. However, despite issuance of POs at the quoted rates, the firms did not commence supply of biomass pellets. After granting sufficient time, GHTPP initiated action against the defaulting firms as per the terms and conditions of the Purchase Order-cum-Contract Agreement.

- ii. **Proposed Pellet Manufacturing Plant:** GHTPP stated that it is pursuing with NTPC Vidyut Vypar Nigam Ltd (NVVN) for setting up a non-torrefied pellet manufacturing plant of 40 MTPD capacity at GHTPP Lehra Mohabbat. However, the plant has not yet become operational due to technical constraints. It is noted that in GHTPP's reply dated 06.01.2026, no specific technical constraints or detailed issues arising therefrom were substantiated.
 - iii. **Increase in Coal Consumption:** GHTPP submitted that the quantity of biomass pellets for which POs were placed in April 2024 was assessed based on average coal consumption for FY 2021-22 to 2022-23 (1,950,357 MT). However, coal consumption increased significantly to 2,971,426 MT during 2024-25 owing to higher power demand. Consequently, the percentage of biomass co-firing reduced proportionately.
- II. On the above grounds, GHTPP submitted that the shortfall in achieving the minimum 3% co-firing target was attributable to external supply-side constraints and unforeseen technical variables, and not due to administrative negligence.

Examination and Findings of the Committee

The Committee deliberated upon the matter in detail.

- i. **Adoption of Benchmark Price:** SAMARTH reiterated that the "Benchmark Price" mechanism, communicated by the MoP vide letter dated 23.08.2023, was devised after considering appropriate margins for pellet manufacturers to reduce instances of contract failure. It has been evidenced from the performance of compliant TPPs that adoption of the Benchmark Price significantly reduces supply failures post issuance of POs.

The Commission has consistently noted that non-adoption or improper adoption of the Benchmark Price is one of the principal causes for failure to secure assured pellet supplies.

- ii. **Multiple Vendor Approach:** The Committee observed that compliant TPPs during 2024–25 adopted a diversified vendor strategy to mitigate supply risk. PSPCL–Lehra did not adequately operationalize such multi-vendor procurement mechanism. The importance of maintaining a resilient supply chain was emphasized during review meetings held on 13.03.2024, 20.06.2024 and 30.08.2024, the minutes of which were duly circulated.
- iii. **Establishment of Pellet Manufacturing Facilities:** The Commission, MoP and SAMARTH have repeatedly advised TPPs to establish in-house or proximate pellet manufacturing facilities, either independently or through third-party arrangements. Ensuring timely operationalization of such facilities was the responsibility of the concerned TPP. The proposed plant in coordination with NTPC Vidyut Vypar Nigam Ltd (NVVN) has not yet materialized and no cogent technical justification has been furnished for the delay.
- iv. **Accounting for Enhanced Coal Consumption:** The Committee noted that SAMARTH had already factored in potential variations in coal consumption and Plant Load Factor (PLF) while projecting co-firing targets. Therefore, the increase in coal consumption cannot, by itself, constitute sufficient justification for failure to meet the mandated co-firing percentage.
- v. **Past Performance and Prior Flagging:** While PSPCL’s Ropar TPP eventually complied with the co-firing mandate despite initial poor performance, PSPCL–GHTPP failed to demonstrate

comparable corrective action. The poor performance of PSPCL–GHTPP was flagged by the Commission to MoP, Government of India, Government of Punjab and PSPCL on multiple occasions (09.02.2024, 12.02.2024, 21.02.2024 and 27.02.2024) in relation to Commission’s Direction No. 42 dated 17.09.2021.

Conclusion of the Committee (PSPCL – Lehra Mohabbat)

- i. Upon comprehensive consideration of the written submissions and material placed on record, the Committee concludes that GHTPP- PSPCL, Lehra Mohabbat TPP achieved only 2.00% biomass co-firing during FY 2024-25 against the prescribed minimum target of 3%, thereby falling short of the statutory mandate under the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023.
- ii. The explanations advanced by GHTPP, including non-performance by vendors, delay in operationalization of the proposed pellet manufacturing plant in association with NTPC Vidyut Vypar Nigam Ltd (NVVN) and increase in coal consumption during the year, do not establish circumstances beyond its reasonable control within the meaning of Rule 5 of the 2023 Rules. The material on record indicates that:
 - Adoption of the Benchmark Price mechanism, as communicated by the MoP, was either delayed or ineffectively operationalized, contributing to procurement failure;
 - Adequate diversification of suppliers and development of a resilient procurement framework was not ensured despite repeated advisories and review meetings;
 - The proposed pellet manufacturing facility was not commissioned within a reasonable timeframe and no

substantiated technical impediment has been demonstrated;

- Variations in coal consumption and PLF are foreseeable operational parameters and were already factored into the projected co-firing targets.
- iii. The Committee further observed that no systemic or region-wide non-availability of biomass has been established. The circumstances cited reflect procurement and planning deficiencies rather than force majeure, statutory prohibition or legal impossibility.
- iv. In view of the above findings, the Committee finds no grounds to grant relaxation under Rule 5 for FY 2024-25. The shortfall in achieving the mandated co-firing percentage is attributable to inadequate planning and lack of institutional preparedness. Accordingly, GHTPP-PSPCL, Lehra Mohabbat is liable for imposition of EC for the said financial year, computed strictly in accordance with the prescribed regulatory methodology. The EC is compensatory and deterrent in character and intended to secure adherence to the statutory mandate.
- v. GHTPP should immediately streamline its procurement framework, strictly adhere to the Benchmark Price mechanism, diversify its vendor base and expedite establishment of pellet manufacturing capacity to ensure sustained compliance in subsequent financial years.

D. Three (03) TPPs of HPGCL (RGTPP – Hisar, DCRTTP - Yamunanagar and PTPS – Panipat)

The Director (Technical), HPGCL appeared before the Committee and presented the consolidated position of its three TPPs in Haryana. The submissions made on behalf of HPGCL broadly included the following:

- i. **Statutory and Regulatory Constraints:** HPGCL submitted that it had co-fired 550 MT of torrefied biomass pellets during FY 2021–22 in compliance with directions of the Commission. However, pass-through of the expenditure was not initially allowed by the Haryana Electricity Regulatory Commission (HERC), despite the policy of the MoP dated 08.10.2021.

HPGCL approached the Appellate Tribunal for Electricity, which directed HERC to take a decision on interim arrangement within four weeks. Subsequently, while allowing pass-through, HERC imposed conditions that biomass pellets shall be procured from within Haryana, pellet manufacturers must be situated in Haryana and co-firing shall be undertaken only after obtaining OEM approval.

HPGCL submitted that compliance with these directions entailed procedural delays and created additional constraints impacting procurement during FY 2024-25.

- ii. **Restriction to Torrefied Pellets and Availability Issues:** HPGCL submitted that torrefied biomass pellet manufacturing was still at a nascent stage during 2024–25. Due to non-availability of sufficient manufacturers within Haryana and lack of established technology, suppliers required time to develop adequate production capacity. Despite best efforts, HPGCL could not procure the requisite quantum of torrefied pellets.
- iii. **Constraint Regarding Purchase of Parali through Agriculture Portal:** Pursuant to directions of the Hon'ble Chief Minister in the SLHPPC meeting, HPGCL issued a Purchase Order dated 10.05.2023 providing for direct payment to farmers for paddy straw through the Agriculture & Farmers Welfare Department

portal. However, the supplier faced difficulties as the portal did not have a provision for such direct payments, which was confirmed by the Agriculture Department.

The State Government granted relaxation on 21.10.2024 and the Purchase Order was amended on 07.11.2024, with a copy marked to the Commission.

- iv. **District-wise Procurement Restrictions:** The engaged firm communicated difficulty in procuring paddy straw from the allocated districts. Although the constraint was eventually lifted by the State Government, approximately seven months of FY 2024–25 had already elapsed.
- v. **Cancellation of e-NITs due to Benchmark Price Direction:** An e-NIT dated 21.10.2024 was issued for procurement of 2 lakh MT torrefied biomass pellets. Subsequently, SAMARTH, considering MoP's revised biomass utilization policy, Commission's Direction No. 42 and the notification of the MoEF&CC regarding penalties for non-compliance, directed adherence to benchmark rates on 08.11.2024.

MoP notified benchmark price for torrefied pellets on 18.11.2024. Consequently, the tender was cancelled. A fresh e-NIT dated 31.01.2025 for 3.55 lakh MT was issued but subsequently cancelled due to insufficient bidders.

Examination by the Committee

The Members of the Committee deliberated extensively on the issues raised.

- i. **Prior Assurance and Preparedness:** The Committee noted that the Energy Department, Government of Haryana had assured

on 27.02.2024 that HPGCL was fully prepared to achieve biomass co-firing targets for 2024–25. However, actual performance did not reflect adequate preparedness.

- ii. **Over-Dependence on Torrefied Pellets and Single Vendor:** It was observed that the principal reason for non-compliance by RGTPP, DCRTTP and PTPS was over-reliance on procurement of torrefied pellets from a single vendor and absence of diversification in procurement strategy.
- iii. Repeated advisories were issued during review meetings emphasizing diversification of vendors and procurement strategy to mitigate supply risk. Notably, DCRTTP and RGTPP confined themselves to torrefied pellets despite having the technical feasibility to co-fire non-torrefied pellets, as adopted by five other compliant TPPs.
- iv. **Advisories During High-Level Committee Visit:** During the High-Level Committee visit in 2024, DCRTTP (Yamunanagar) and RGTPP (Hisar) were specifically advised to initiate co-firing of non-torrefied pellets, taking reference from the performance of NTPC TPPs and JPL–Apraava, Jhajjar.
- v. **Delay in Feasibility Implementation at PTPS:** PTPS, owing to its ball & tube mill configuration, initiated a feasibility study through Bharat Heavy Electricals Limited (BHEL) for suitability of biomass co-firing. BHEL submitted its initial report in October 2022 recommending modifications in Units 7 & 8 for trial co-firing.

However, correspondence dated 19.10.2022 indicated that BHEL sought confirmation regarding pellet availability for conducting trials. The requisite follow-up and operationalization

remained pending at PTPS for an extended period. Only after the Commission's notice dated 15.02.2024 and the subsequent High-Level Committee visit did HPGCL complete the pending exercise and commence co-firing of torrefied pellets.

The State Government of Haryana and SAMARTH were also requested to address issues of pellet and biomass availability.

- vi. **Delayed Initiation and Regulatory Flagging:** The Committee observed that all three TPPs of HPGCL initiated meaningful co-firing activities only after issuance of notice dated 15.02.2024 and the High-Level Committee intervention. The performance of HPGCL TPPs had earlier been flagged by the Commission before MoP and the Government of Haryana on 12.02.2024 and 09.02.2024, respectively.

Conclusions of the Committee (HPGCL)

- i. Upon comprehensive consideration of the written / oral submissions made by HPGCL, the material placed on record and the deliberations during review meetings and hearings, the Committee concluded that RGTPP, DCRTTP and PTPS failed to achieve the prescribed biomass co-firing targets for FY 2024–25 under the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023.
- ii. The grounds advanced by HPGCL, including regulatory conditions imposed by the HERC, procedural requirements relating to OEM approval, benchmark price notifications issued by the MoP, procurement constraints relating to torrefied pellets, portal-related issues concerning direct payment to farmers, district-wise procurement limitations and cancellation of

tenders, do not constitute circumstances beyond its reasonable control within the meaning of Rule 5 of the 2023 Rules. The Committee finds that:

- Regulatory or tariff-related conditions imposed by HERC pertain to commercial recovery of expenditure and do not suspend the statutory obligation to achieve notified co-firing percentages;
 - The benchmark price framework was introduced to stabilize procurement and was applicable uniformly to all TPPs; tender cancellations and re-tendering processes were foreseeable procurement contingencies, which could have been mitigated through timely planning;
 - Over-dependence on torrefied pellets and limited vendors, despite technical feasibility of co-firing non-torrefied pellets at RGTPP and DCRTPP, reflects procurement strategy deficiencies rather than systemic impossibility;
 - In the case of PTPS, delays in operationalizing feasibility recommendations and follow-up with BHEL were attributable to institutional inaction over an extended period;
 - Meaningful co-firing efforts were undertaken only after issuance of notice dated 15.02.2024 and intervention of the High-Level Committee, indicating reactive rather than proactive compliance.
- iii. The Committee further observed that no material has been placed on record to demonstrate force majeure, legal impossibility or any statutory prohibition preventing compliance. The constraints cited largely relate to administrative coordination, regulatory approvals, vendor management and procurement planning, which fall within the operational domain of the generating utility.

- iv. The Committee also noted that, despite advising repeatedly to RGTPP, DCRTTP and PTPS of HPGCL to establish in-house or proximate pellet manufacturing facilities, RGTPP, DCRTTP and PTPS of HPGCL failed to comply with the same
- v. In view of the foregoing, the Committee finds no grounds to grant relaxation under Rule 5 for FY 2024-25. Accordingly RGTPP, DCRTTP and PTPS are liable for imposition of EC for the shortfall in biomass co-firing during the said financial year. The EC computed strictly in accordance with the prescribed regulatory methodology is compensatory and deterrent in nature, intended to secure adherence to the statutory mandate.
- vi. HPGCL for its 3 TPPs should immediately streamline its procurement framework, adopt a diversified vendor strategy including both torrefied and non-torrefied pellets as technically feasible and institutionalize advance procurement planning to secure sustained compliance in subsequent financial years.

Observations and Recommendations

- 40. The Committee reiterates that co-firing of crop-residue-based biomass pellets in coal-based TPPs is a critical statutory and environmental intervention for addressing stubble burning in the NCR and adjoining areas. This measure directly contributes to reduction of open-field burning, mitigation of severe air pollution episodes, conservation of natural resources and lowering of the carbon footprint of TPP operations. The initiative is aligned with India's broader climate commitments, including the national objective of achieving Net-Zero emissions and represents a scalable and replicable framework for sustainable biomass utilisation.

41. Review of performance for FY 2025–26 (up to January) indicates that approximately 16.86 lakh MT of crop-residue-based biomass pellets have been co-fired collectively by 11 TPPs against a projected co-firing target of (@5% co-firing) approximately 25.34 lakh MT. This still reflects a substantial shortfall. The Committee observes that in respect of certain TPPs, the lag is attributable primarily to inadequate advance planning, weak procurement structuring, over-dependence on limited vendors, delayed institutional decision-making and failure to maintain a resilient pellet supply chain, despite repeated advisories and availability of policy support mechanisms. Such systemic deficiencies, if unaddressed, may result in recurring non-compliance and undermine the regulatory framework.

42. The Committee further noted that compliance is demonstrably achievable. During FY 2024–25, the performance of

- JPL-Aprava Energy,
- GGSSTPP, PSPCL- Ropar, and
- NPL, Rajpura

demonstrates that structured procurement planning, adoption of benchmark pricing mechanisms and diversified vendor engagement can yield sustained compliance. Consistent performance post issuance of Direction No. 42 has also been observed in NTPC Dadri and IGSTPS, Jhajjar. Further, performance improvement during FY 2025–26 in TSPL reinforces that robust procurement framework and diversification of suppliers are decisive determinants of compliance, which should have been taken earlier to be compliant with co-firing targets of FY 2024-25.

43. Based on the examination of records, submissions and performance data, the Committee noted that the following five TPPs have complied with the applicable mandates under the Environment (Crop Residue Utilization by Thermal Power Plants) Rules, 2023:

1. JPL – Apraava Energy;
2. NTPC–Dadri;
3. IGSTPS, Jhajjar;
4. GGSSTPP – Ropar (PSPCL);
5. NPL – Rajpura.

The remaining six (06) TPPs, namely:

1. RGTPP, Hisar - HPGCL
2. DCRTPP, Yamunanagar - HPGCL
3. PTPS, Panipat - HPGCL
4. PSPCL - GHTPP, Lehra Mohabbat
5. HPS - UPRVUNL
6. TSPL – Mansa

have been found non-compliant with the prescribed co-firing targets for FY 2024-2025, due to inadequate planning, delayed procurement actions, over-reliance on limited suppliers and failure to institutionalize a resilient crop-residue pellet supply chain despite clear regulatory mandates and repeated advisories.

44. Upon comprehensive review of the representations, replies and oral submissions made by the aforesaid six (06) TPPs, the Committee further reaffirms as follows:
 - i. The explanations and justifications advanced by the concerned TPPs are insufficient to establish that the circumstances cited were beyond their reasonable control within the meaning of Rule 5 of the 2023 Rules. The material on record does not demonstrate force majeure, statutory prohibition or legal impediment preventing compliance.

- ii. The constraints cited predominantly relate to procurement strategy, vendor management, contractual structuring, tariff or regulatory recovery, logistical coordination or delayed institutional response. Such factors fall within the operational and managerial domain of the TPPs and were capable of mitigation through timely and structured managerial response and diversified procurement planning, including establishment of in-house or proximate pellet manufacturing arrangements.
 - iii. The Committee further observes that repeated advisories, review meetings, issuance of notices and grant of opportunities for hearing were extended to the concerned TPPs. Despite such facilitative opportunities, these six (06)sssss TPPs remained non-compliant.
 - iv. The Committee further observed that, upon a detailed examination of the compliance measures and actions undertaken by the concerned TPPs, there appears to be a clear lack of intent to adhere to the statutory mandate. Additionally, no effective efforts were evident towards achieving the prescribed co-firing targets. In view of the long-term and sustained compliance requirements aimed at preventing stubble burning incidents, the Committee is of the considered opinion that the imposition of suitable EC on the defaulting TPPs is warranted. Such imposition would not only address the present non-compliance but also serve as a deterrent against future violations.
45. Accordingly, in terms of the provisions of the Environment (Crop Residue Utilization by Thermal Power Plants) Rules 2023, the Committee recommends imposition of EC upon the aforesaid six (06) non-compliant Thermal Power Plants, as per the prescribed methodology and notified rates under the said Rules. The Environmental Compensation for shortfall in

mandated biomass co-firing targets for FY 2024-25 is liable to be imposed as reflected in the table below:

S.No.	Name of the Plants	Environmental Compensation (EC) for 2024-25			
		Biomass Co-fired in % consumption	Biomass Pellets % Required @ to be co-fired to be complied with	Environmental Compensation (EC) (in Million Rs.) as per E(GT)	
1	Harduaganj TPS.	2.05 %	>3 %	27.40	Not-complied
2	RGTPP. Hisar	2.07 %		55.51	Not-complied
3	GHTPP Lehra Mohhabbat	2.00 %		48.66	Not-complied
4	PTPS, Panipat	1.86 %		89.79	Not-complied
5	DCRTPP, Yamuna Nagar	1.44 %		66.87	Not-complied
6	TSPL, Mansa	0.36 %		330.26	Not-complied
Total		-		618.49	

46. The Committee concludes that imposition of EC is warranted on account of failure to achieve the prescribed minimum biomass co-firing targets despite availability of sufficient compliance window, institutional support mechanisms, benchmark pricing framework, repeated regulatory advisories and opportunities of hearing. The explanations advanced by the defaulting TPPs do not meet the requirement for relaxation under Rule 5. Subsequent improvements in performance, while noted, do not retrospectively cure the past shortfalls.
47. In view of the foregoing, the Committee is of the considered view that EC be imposed and recovered from the defaulting TPPs strictly in accordance with the provisions of the Environment (Utilisation of Crop Residue by Thermal Power Plants) Rules, 2023. The EC is compensatory and deterrent in character and is computed strictly in accordance with the prescribed rates.
48. At the end, the Committee also opines that, in addition to taking deterrent action against the defaulting TPPs, appropriate measures and policy

interventions should also be initiated to motivate, promote and encourage compliance with the mandated co-firing requirements.

CASE NO.:
Appeal (civil) 3556 of 1984

PETITIONER:
NOVOPAN INDIA LTD., HYDERABAD

RESPONDENT:
COLLECTOR OF CENTRAL EXCISE AND CUSTOMS, HYDERABAD

DATE OF JUDGMENT: 14/09/1994

BENCH:
B.P. JEEVAN REDDY & SUHAS C. SEN & K.S. PARIPOORNAN

JUDGMENT:
JUDGMENT

1994 SUPPL. (3) SCR 549

The Judgment of the Court was delivered by

B.P. JEEVAN REDDY, J. This appeal is preferred against the judgment and order of the Customs, Excise and Gold (Control) Appellate Tribunal, New Delhi dismissing the appeal preferred by the appellant- manufacturer.

The appellant is engaged in the manufacture of particle boards. It commenced the production in the year 1979. The first clearances were made in the March of that year. The appellant sought to take advantage of the Exemption Notification No. 55 of 1979 issued by the Central Government under Rule 8(1) of the Central Excise Rules, 1944. This Notification exempted "plywood and boards specified in column (2) of the table hereto annexed and falling under Item No. 16-B of the First Schedule to the Central Excise and Salt Act, 1944 (1 of 1944) from so much of the duty of excise leviable thereon as is in excess of the duty specified against the corresponding entry in column (3) of the said table." The table appended to the said Notification reads as follows:

TABLE

S.No. (1)	Description (2)	Rate of Duty (3)
1.	Commercial plywood	Twenty per cent ad valorem.
2.	Batten boards and block boards (including flush doors) having both faces of commercial plywood and veneered shocks and panels made up of strips of woods flued between two outer veneers.	Twenty per cent ad valorem.
3.	Insulation boards and hard boards.	Ten per cent ad valorem.
4.	Marine plywood and aircraft plywood.	Ten per cent ad valorem.
5.	Veneered particle boards excluding particle boards with decorative veneers on one or both faces.	Twenty per cent ad valorem.
6.	Unveneered particle boards.	Nil
7.	(Omitted as unnecessary)'	

The appellant's case was that the particle boards manufactured by it are 'unveneered particle boards' within the meaning of Item No. 6 of the aforesaid table and, therefore, totally exempt from duty. This case was accepted by the department. A few months later, the appellant started manufacturing what are described as "melamine faced particle boards". The

appellant claimed the benefit of the aforesaid Exemption Notification with respect to melamine faced particle boards as well, to which the authorities did not agree. According to them, the product fell and was dutiable under Tariff Item-68. The appellant accepted the said position and accordingly a classification list was filed and approved on January 9, 1980. On June 17, 1980, the Collection of Central Excise issued a notice under Section 35-A of the Act proposing to revise the order to the Assistant Collector dated January 9, 1980. According to him, the melamine faced particle boards (M.F.P.Bs.) were classifiable under Tariff Item 16-B but were not entitled to the benefit of exemption provided by the Notification No. 55 of 1979 aforesaid - with the result that the said boards became liable to a duty higher than the one prescribed under Tariff Item-68. The appellant showed cause whereupon the Collector dropped the proceedings. He held that the MFPBs fell under Tariff Item 68 and not under Tariff Item 16-B. On this occasion, however, the appellant questioned the order to the Collector by filing a revision before the Central Government wherein he put forward a composite claim. According to it, MFPBs were no doubt classifiable under Tariff Item 16-B but at the same time, they were entitled to the benefit of the Exemption Notification No.55 of 1979 aforesaid. The idea evidently was to obtain total exemption from tax in this manner. The Tribunal examined the said claim but rejected it. The Tribunal agreed with the Collector that MFPBs were properly classifiable and dutiable under Tariff Item-68.

The short question in this appeal is whether MFPBs can be called 'unveneered particle boards' within the meaning of, Item-6 of the table appended to Notification No. 55 of 1979? The process of manufacture of particle boards is set out in the order of the Tribunal in the following words:

The manner of manufacture of particle boards by the petitioner is as follows :-

(i) Wood is received in the form of logs of approximately 1 mtr. length. The logs are fed into a chipping machine where they are cut into small particles or flakes. These flakes are dried and rifted into the fractions of definite dimension, one forming the core layer and the other for the two face layers. The two fractions of wood particles are independently mixed with U.F. resin and additives in specially designed gluing machines. The glued particles are then spread into a form of mat, forming two face layers and one Central core. The mat thus formed is conveyed to the Hydraulic press where it is subjected to heat and pressure. The boards remain in the press for a predetermined time after which they are taken out and cooled at room temperature. The surface of the board is then sanded in sanding machine, which also calibrates the board to the required thickness."

The Tribunal has pointed out that the very same process is set out in the two affidavits of 'experts' filed by and relied upon by the appellant. The Tribunal then referred to the process of manufacture of MFPBs as described in brochure Exh.-II, According to the brochure, the appellant was carrying on "a unique process where the resin impregnation takes place in an integrated process and this melamine facing is a part of this process, and not what could be a simple gluing of a material subsequently". The said process was described in the brochure as "pre-lamination which implies that lamination takes place before fully manufactured particle board, in its marketable condition, comes into existence".

The learned counsel for the appellant also placed before us pieces of particle board, veneered particle board, melamine faced particle board and commercial plywood. This has indeed assisted us in deciding the issue.

To decide whether MFPBs. can be called 'unveneered particle boards' within the meaning of Item (6) of the table appended to Notification No, 55 of 1979, the test is whether MFPBs. are understood and dealt with as unveneered particle boards in the relevant commercial circles and in common parlance. In Plasmac Machine Manufacturing Co, Pvt. Ltd. v. Collector of

Central Excise, Bombay, [1991] Suppl. 1 S.C.C, 57, it was held by this Court :

"It is an accepted principle of classification that the goods should be classified according to their popular meaning or as they are understood in their commercial sense and not as per the scientific or technical meaning. Indo International Industries v. CST, [1981] 2 SCC 528 and Dunlop India Ltd. v. Union of India, [1976] 2 SCC 241 have settled this proposition. How is the product identified by the class or section of people dealing with or using the product is also a test when the statute itself does not contain any definition and commercial parlance would assume importance when the goods are marketable as was held in Anul Glass Industrial (Pvt.) Ltd. v. CCE, [1986] 3 SCC 480 and Indian Aluminium Cables Ltd. v. Union of India, [1985] 3 SCC 284. In Asian Paints India Ltd. v. CCE, [1988] 2 SCC 470 which was a case of emulsion paint, at para 8, it was said :

"It is well settled that the commercial meaning has to be given to the expressions in tariff items. Where definition of a word has not been given, it must be construed in its popular sense. Popular sense means that sense which people conversant with the subject matter with which the statute is dealing, would attribute to it."

There is no dispute about the above proposition.

We have already set out the process of manufacture of particle boards and the MFPBs. It is difficult to say from the said process that MFPBs are unveneered particle boards. Actually, veneered particle boards mean particle boards on both sides of which plywood is pasted. Un-veneered particle boards is, what we may call, raw particle board. The melamine facing gives it a smooth polished surface. It looks as if the particle board had been laminated on both sides. (We are told by the learned counsel for the appellant that in some cases the melamine facing is done only on one side and not on both the sides.) It is thus difficult to say that the melamine faced particle boards can be described as 'unveneered particle boards'. Nobody in the trade circles or in the market would consider both the products as one and the same. From whichever way one looks at them, they appear to be different products. As stated hereinbefore, even the process of manufacturing is different. It is not a case of mere processing of particle boards for giving it strength. It is a case of manufacturing an altogether different product.

Learned counsel for the appellant relied upon the following passage occurring under the heading "Particle Boards" at page 175 of Encyclopedia Britannica (15th Edn.) Vol. 9:

"Particle board, construction material consisting of flakes, shavings, or splinters of wood glued together in the form of sheets. The particles are mixed with resin, water repellants, and mildew inhibitors, formed into mats, hot-pressed, trimmed to the appropriate size and shape, and finally sanded. Particleboard was developed in the 1940s, when suitable synthetic resins became available; it has made possible the use of residues from lumber production and logging. Particleboard is usually manufactured in thicknesses of 6-25 mm (1/5-1 inch) and in three grades of density. It may be covered with resin-impregnated paper, plastics, or other finishes."

On the basis of the last sentence in the above extract, the learned counsel sought to contend that melamine faced particle board is the same as the particle board and that merely covering the particle boards with resin-impregnated paper, with a view to lend them strength and a smooth and attractive surface do not make MFPBs a different product. We do not think that the said description in Encyclopedia is of any assistance in the matter of classification where the test is the one indicated hereinbefore, viz., whether they are commercially different goods. The Tribunal has held that they are not and no material has been brought to our notice to take a different view.

Learned counsel for the appellant sought to rely upon the affidavits of experts filed by him before the Tribunal which according to him prove that, commercially speaking, particle boards and MFPBs are one and the same product. The tribunal has declined to place any reliance on these affidavits for more than one reason. So far as Dr. Joseph, one of the 'experts' is concerned, the Tribunal has pointed out, and rightly in our opinion, that he has been associated with the appellant-company from the beginning, as admitted by the said person himself. The other person Sri A.C. Shekhar was also found to be associated with the appellant-company. Both of them deposed before the Tribunal that they did not witness the process of manufacture nor were they able to comment upon the process of manufacture contained in the brochure referred to hereinabove. From a reading of their affidavits, the Tribunal concluded that they are not independent experts and that their affidavits were prepared with a view to bolster the appellant's case in these proceedings. The said experts, the Tribunal observed, did not also try to support their opinions with reference to any technical literature or authority on the subject. For all the above reasons, the Tribunal declined to accept their bare assertion that MFPBs can be described as 'unveneered particle boards'. We cannot say that the reasons given by the Tribunal for rejecting the said affidavits are either irrelevant or unsustainable. The said affidavits, therefore, do not advance the appellant's case in any manner.

The learned counsel for the appellant then contended that since there is an ambiguity about the meaning and purport of item-6 of the table appended to the Exemption Notification, the benefit of such ambiguity should go to the assessee manufacturer and the entry must be construed as taking in the MFPBs as well. It is not possible to agree with this submission.

In Mangalore Chemicals & Fertilizers Ltd.. v. Deputy Commissioner of Commercial Taxes & Ors., [1992] Suppl. 1 S.C.C. 21, a Bench of this Court comprising M.N. Venkatachaliah, J. (as the learned Chief Justice then was) and S.C Agrawal, J. stated the relevant principle in the following words :

"Shri Narasimhamurty again relied on certain observations in CCE v. Parle Exports (P) Ltd, [1989] 1 SCC 345, in support of strict construction of a provision concerning exemptions. There is support of judicial opinion to the view that exemptions from taxation have a tendency to increase the burden on the other unexempted class of tax payers and should be construed against the subject in case of ambiguity. It is an equally well known principle that a person who claims an exemption has to establish his case. Indeed, in the very case of Parle Exports (P) Ltd. relied upon by Shri Narasimhamurthy, it was observed :

"While interpreting an exemption clause, liberal interpretation should be imparted to the language thereof, provided no violence is done to the language employed. It must, however, be borne in mind that absurd results of construction should be avoided."

The choice between a strict and a liberal construction arises only in case of doubt in regard to the intention of the legislature manifest on the statutory language. Indeed, the need to resort to any interpretative process arises only where the meaning is not manifest on the plain words of the statute. If the words are plain and clear and directly convey the meaning, there is no need for any interpretation. It appears to us the true rule of construction of a provision as to exemption is the one stated by this Court in Union of India v. Wood Papers Ltd., [1990] 4 SCC 256 :

"..... Truly speaking liberal and strick construction of an exemption provision are to be invoked at different stages of interpreting it. When the question is whether a subject falls in the notification or in the exemption clause then it being in nature of exception is to be construed strictly and against the subject but once ambiguity or doubt about applicability is lifted and the subject falls in the notification then full

play should be given to it and it calls for a wider and liberal construction...."

This was also the view expressed in *The Commissioner of Inland Revenue v. James Forrest*, (1890) 15 A.C. 334 where Lord Halsbury, L.C. observed: "all exemptions from taxation to some extent increase the burden on other members of the community....," and in *Littman v. Barron* (Inspector of Taxes, [1951] 2 A.E.R. 393, a decision of the Court of Appeal where Cohen, L.J. said : "the principle that in case of ambiguity a taxing statute should be construed in favour of a taxpayer does not apply to a provision giving a taxpayer relief in certain cases from a section clearly imposing liability".

It is true that in some decisions a contrary view appears to have been expressed. In *Caroline M. Armytage & Ors. v. Frederick Wilkinson*, (1878) 3 A.C. 355, a decision of the Privy Council, it was observed :

"Their Lordships have now to consider whether the decision of Mr. Justice Molesworth upon the merits of the application to him is correct.

They must begin by expressing their dissent from the principle which seems to have influenced Mr. Justice Molesworth in this and some of the earlier cases, viz., that the provisions of the 24th section, because they establish an exception to the general rule, are to be construed strictly against those who invoke their benefit. That principle is opposed to the rule expressed by Lord Ellenborough's in *Warrington v. Furber*, (8 East 242) and followed and confirmed in *Hobson v. Neale*, (17, Beav. 185). Lord Ellenborough's words are : - "I think that when the subject is to be charged with a duty, the cases in which it is to attach ought to be fairly marked out, and we should give a liberal construction to words of exception confining the operation of the duty." It is only, however, in the event of there being a real difficulty in ascertaining the meaning of a particular enactment that the question of strictness or of liberality of construction need arise."

To the same effect is the view expressed by Sir Raymond Evershed in *Routledge v. McKay & Ors.*, [1954] 1 A.E.R. 855. The learned Master of Rolls observed : "on the authorities, that exemption, as I understand, should be liberally interpreted."

We are, however, of the opinion that, on principle, the decision of the Court in *Mangalore Chemicals - and in Union of India v. Wood Papers*, referred to therein - represents the correct view of law. The principle that in case of ambiguity, a taxing statute should be construed in favour of the assessee - assuming that the said principle is good and sound - does not apply to the construction of an exception or an exempting provision; they have to be construed strictly. A person invoking an exception or an exemption provision to relieve him of the tax liability must establish clearly that he is covered by the said provision. In case of doubt or ambiguity, benefit of it must go to the State. This is for the reason explained in *Mangalore Chemicals* and other decisions, viz., each such exception/exemption increases the tax burden on other members of the community correspondingly. Once, of course, the provision is found applicable to him, full effect must be given to it. As observed by a Constitution Bench of this Court in *Hansraj Girdhandas V.H.H. Dave*, (1969) 2 S.C.R. 253 that such a Notification has to be interpreted in the light of the words employed by it and not on any other basis. This was so held in the context of the principle that in a taxing statute, there is no room for any intendment, that regard must be had to the clear meaning of the words and that the matter should be governed wholly by the language of the notification, i.e., by the plain terms of the exemption.

Applying the above principles, we must hold that the words 'un-veneered particle boards' in Item-6 of the table appended to the Exemption Notification cannot and do not take in melamine faced particle boards.

Indeed, the learned counsel for the Revenue contends, and is our opinion rightly, that the said entry does not admit of any doubt, that it is dear and specific and that it covers only unveneered particle boards and nothing else.

For the above reasons, the appeal fails and is dismissed with costs. Advocate's fee Rs. 10,000 consolidated.

It is brought to our notice that by an interim order dated July 30, 1986, this Court directed stay of recovery of arrears of duty on condition that the appellant deposits 50% of the demand within three months from the date of the order and furnishes bank guarantee for the balance. The order reads as follows :

"In the facts and circumstances of this particular case, we direct under Article 142 of the Constitution that the recovery of the demand which is to the tune of nearly a crore of rupees shall remain stayed on a condition that the appellant deposits 50% of the demand within three months from today and furnishes the bank guarantee for the balance within that time.

Dr. Chitale, learned counsel for the appellant states that the appellant has already furnished bank guarantee for much larger amount. If that be so, the existing bank guarantee may be cancelled and a fresh bank guarantee to cover the remaining 50% of the demand shall be furnished. The bank guarantee shall, however, be kept renewed from time to time till the disposal of this appeal. The appellant will pay the interest @ 18% per annum on 50% of the demand in the event of the appeal being dismissed. If the appeal is allowed, the amount of 50% deposited by the appellant shall be refunded with the same rate of interest.

The C.M.P. is disposed of accordingly."

It is obvious that on the dismissal of this appeal, the aforesaid order comes to an end. The appellant has to pay the arrears of duty due according to law. It shall also be open to the respondents to encash the bank guarantees for the said purpose.



F. No.11/86/2017-Th.II (C.No 238797)

Government of India

Ministry of Power

Shram Shakti Bhawan, Rafi Marg,
New Delhi, dated the 16th June, 2023.

To,

1. Principal Secretary/Secretary in-charge of Energy/Power
Departments, All States/UTs
2. Chairman, CEA
3. CMDs of all CGSs/IPPs

**Subject: Modification of Revised Policy for Biomass Utilization for
Power Generation through Co-firing in Coal based Power
Plants dated 08.10.2021- reg.**

Sir/Madam,

I am directed to refer to this Ministry's "Revised Policy for Biomass Utilization for Power Generation through Co-firing in Pulverized Coal Fired Boilers" issued in 08.10.2021 and its Addendum issued on 03.05.2023(copies enclosed).

2. Keeping in view that the supply chain of biomass-based pellets is still in the process of development in the country and to further promote use of biomass pellets in coal based thermal power plants, the above Policy stands further modified as under:

(a) Existing Clause No.3- (i), (ii), (iii) to be replaced by the following clauses:

3(i) All coal based thermal power plants of power generation utilities with **bowl mills**, shall on annual basis mandatorily use minimum 5% blend of biomass pellets made, primarily , of agro residue along with coal with effect from FY 2024-25. The obligation shall increase to 7% with effect from FY 2025-26.

3(ii) All coal based thermal power plants of power generation utilities with **ball & race mills**, shall on annual basis mandatorily use 5% blend of biomass pellets(torrefied only) made, primarily, of agro residue along with coal with effect from FY 2024-25. The obligation shall increase to 7% with effect from FY 2025-26.

3(iii) All coal based thermal power plants of power generation utilities with **ball & tube mills**, shall on annual basis mandatorily use 5% blend of torrefied biomass pellets with volatile content below 22%, primarily made of agro residue along with coal with effect from FY 2024-25.

(b) Addition of Para 5, after Para 4 of ibid policy, as under:

A Committee shall be constituted under the leadership of CEA with members from MNRE, MoAFW, MoPNG, Forum of Regulators, SAMARTH, State Governments, Power Utilities etc. for **price benchmarking of biomass pellets** considering the business viability, impact on electricity tariff and efficient & faster pellet procurement by power utilities.

The Price benchmarking would be carried out region-wise for a period of 5 years with the provision for periodic escalation. The benchmark price will not include the transportation cost from the pellet manufacturing unit to the Thermal Power Plants (TPPs). TPPs shall determine the transportation cost from pellets manufacturing units to TPPs in a fair and transparent manner. The procurement of benchmark-priced pellets shall be carried out on a first-come, first-serve basis. If TPPs are unable to procure biomass pellets at the benchmark price, they have the option to go for a short-term tender. However, it is important for TPPs to ensure that the price discovered in the short-term tender is determined in a fair and transparent manner. The price discovered should also be comparable to the benchmarked prices. The recommendation of Price Benchmarking Committee will be effective from 01.01.2024. The existing tendering process shall continue till the implementation of the Benchmarking Committee recommendations. Meanwhile, the power utilities shall go for short term tenders for meeting the immediate requirement of biomass pellets for their TPPs.

(c) Addition of Para 6, after Para 5 of ibid policy, as under

It has been observed that the availability of torrefied biomass pellets is much lower in the market. Therefore, those power plants which can

use non-torrefied pellets should utilize the same only. Hence, TPPs having Bowl mill will issue tenders for non-torrefied biomass pellets only, while TPPs having either Ball & Race mill or Ball & Tube mill will issue tenders for Torrefied biomass pellets. This practise will continue till further notification on this issue.

3. This issues with the approval of Hon'ble Minister of Power & NRE.

Yours sincerely

Encl: as above.



(J. Misra)

Under Secretary to the Government of India

Tele: 23063746

Copy to:

- (i) PS to Hon'ble Minister of Power & NRE.
- (ii) PS to Hon'ble MoS for Power
- (iii) Sr PPS to Secretary(Power)
- (iv) PPS to SS&FA ,PPS to AS(AT)
- (v) All Joint Secretaries/EA/Chief Engineer, Ministry of Power
- (vi) In-charge, NIC, Ministry of Power- with a request to upload this document on the website of MoP.

**IN THE SUPREME COURT OF INDIA
CIVIL APPELLATE JURISDICTION**

CIVIL APPEAL NO. 3327 OF 2007

COMMISSIONER OF CUSTOMS (IMPORT), MUMBAI

...APPELLANT(S)

VERSUS

M/s. DILIP KUMAR AND COMPANY & ORS.

...RESPONDENT(S)

JUDGMENT

N.V. RAMANA, J.

1. This Constitution Bench is setup to examine the correctness of the *ratio* in ***Sun Export Corporation, Bombay v. Collector of Customs, Bombay***, (1997) 6 SCC 564 [*hereinafter referred as 'Sun Export Case' for brevity*], namely the question is - What is the interpretative rule to be applied while interpreting a tax exemption

provision/notification when there is an ambiguity as to its applicability with reference to the entitlement of the assessee or the rate of tax to be applied?

2. In **Sun Export Case** (supra), a three-Judge Bench ruled that an ambiguity in a tax exemption provision or notification must be interpreted so as to favour the assessee claiming the benefit of such exemption. Such a rule was doubted when this appeal was placed before a Bench of two-Judges. The matter then went before a three-Judge Bench consisting one of us (Ranjan Gogoi, J.). The three-Judge Bench having noticed the *unsatisfactory state of law* as it stands today, opined that the dicta in **Sun Export Case** (supra), requires reconsideration and that is how the matter has been placed before this Constitution Bench.

3. Few facts necessary, to appreciate the issue involved are as follows - the respondents imported a consignment of Vitamin – E50 powder (feed grade) under Bill of Entry No. 8207, dated 19.08.1999. They claimed the benefit of concessional rate of duty at 5%, instead of standard 30%, as per the Customs Notification No. 20/1999 and classified the product under Chapter 2309.90 which admittedly pertains to prawn feed. They relied on the *ratio* in **Sun Export Case** (supra) and claimed the benefit of exemption. The benefit of Customs Notification No. 20/1999 was, however, denied to the respondents on the plea of the department that the goods under import contained chemical ingredients for animal feed and not animal feed/prawn feed, as such, the concessional rate of duty under the extant notification was not available. The department classified the consignment under Chapter 29 which

attracts standard rate of customs duty. The adjudicating authority, namely, the Assistant Commissioner of Customs, distinguished **Sun Export Case** (supra), while accepting the plea of the department to deny the concessional rate. The Commissioner of Customs (Appeals) reversed the order of the Assistant Commissioner and came to the conclusion that **Sun Export Case** (supra) was indeed applicable. The department then approached the Customs, Excise and Service Tax Tribunal (CESTAT), which affirmed the order of the Commissioner of Customs (Appeals). Aggrieved thereby, the present appeal is filed.

4. When the appeal was placed, as noticed earlier, before a Bench of two-Judges, the ruling in **Sun Export Case** (supra) was doubted, observing as follows-

“We have serious doubts as to whether the Bombay High Court judgment affirmed in Sun Export Corporation's case is correct. First and foremost, it is clear that the subsequent exemption Notification largely expanded the first Notification which referred only to animal feeds and nothing else. That being the case, it would be difficult to say that a large number of other categories which have subsequently been added would be clarificatory and therefore, retrospective. Further, we also feel that in view of the catena of judgments of this Court which have held that an exemption Notification has to be strictly construed (that is, if the person claiming exemption does not fall strictly within the letter of the Notification, he cannot claim exemption), have also been ignored by this Court in Sun Export Corporation's case in paragraph 13 thereof. Apart from this, the view of this Court in paragraph 13 that it is well-settled that if two views are possible, one favourable to the assessee in matters of taxation

has to be preferred is unexceptionable. However, this Court was not concerned in that case with the charging Section of a taxation statute. It was concerned with the interpretation of an Exemption Notification which, as has been stated above, would require the exactly opposite test to be fulfilled.”

Further this Court found that the subsequent judgment in ***Collector of Customs and Central Excise, Guntur and Ors. V. Surendra Cotton Oil Mills and Fertilizers Co. and Ors.***, 2001 (1) SCC 578 [*hereinafter referred as ‘Surendra Cotton Oil Mills Case’ for brevity*], distinguished ***Sun Export Case*** (supra), which mandated this Court to take a re-look at the proposition laid down by the earlier cases in the following manner-

“We also find that in the subsequent judgment of this Court, Surendra Cotton Oil Mills's case, this Court has distinguished the Sun Export Corporation's case and held

that it dealt with 'animal feed' which was large enough to include 'animal feed supplements' whereas the facts of Surendra Cotton Oil Mills's case showed that ingredients of animal feed could not be held to be included in 'animal feed'. In our opinion, this Court did not adequately deal with why Sun Exports Corporation's case which is a binding decision of a three Judges Bench should not be followed, apart from a specious distinction between 'ingredients' and 'supplements' which is logically speaking a distinction without a difference.

...

This being the unsatisfactory state of law as it stands today, we feel that this matter should be placed before Hon'ble the Chief Justice of India to constitute an appropriate Bench to resolve the doubts pointed out by us in the body of this Order."

(emphasis supplied)

5. We feel that the reference to **Surendra Cotton Oil Mills Case** (supra), may not be necessary as the distinction was drawn on a factual footing, which this Court may not concern itself with, as we are only concerned with the principle of law. With this, the Division Bench was of the tentative view that the opinion expressed in **Sun Export Case** (supra) would require reconsideration, as the proposition laid down therein was unsatisfactory, and therefore placed before the Chief Justice of India for constituting an appropriate Bench.
6. When the matter was placed before a three Judge Bench presided over by one of us (Ranjan Gogoi, J.), the Bench reiterated the view for reconsideration of the **Sun Export Case** (supra) and again placed the matter,

before Hon'ble the Chief Justice of India for constitution of an appropriate Bench, considering the fact that **Sun Export Case** (supra) was decided by a Bench comprising of three learned judges of this Court. Hence, this matter came to be placed before this Bench of Five Judges with following observations-

“In paragraph 13 of the order of this Court in Sun’s case, views have been expressed with regard to the interpretation of an exemption notification to support the conclusion reached. The same may require a reconsideration.

That apart, in the referral order it has been noticed that *Sun’s Case (supra)* has been distinguished in ‘*Collector of Central Excise, Guntur vs. Surendra Cotton Oil Mills & Fert. Co.* The basis on which the said distinction has been drawn needs to be further pursued.

Having considered the matter at some length, we are of the tentative view, that the opinion expressed in Sun's case (supra) may require a reconsideration. Being a co-ordinate Bench, we believe we ought not to proceed any further in the matter. Hence, we direct the Registry to lay the papers before the Hon'ble the Chief Justice of India for appropriate orders."

(emphasis supplied)

7. The learned Additional Solicitor General, Ms. Pinky Anand, submits that a tax exemption statute or notification needs to be strictly interpreted. According to her, strict interpretation is literal rule of interpretation, which means that Court has to apply the provision reading the language therein and no

interpretation is required if the language is clear. In the event of any ambiguity, according to her, the benefit has to be given to the revenue and that such ambiguity in tax exemption provision must not be interpreted to benefit the assessee who fails to demonstrate without any doubt that such assessee is covered by the tax exemption notification. She elaborated her arguments by relying on various judgments and contends that the *ratio* in **Sun Export Case** (supra), which was doubted in **Surendra Cotton Oil Mills Case** (supra), is not correct law. On merits of the case, she submitted that the artificial distinction created by **Surendra Cotton Oil Mills Case** (supra), in distinguishing the ingredients from supplements is not sound and may not be accepted by the Court.

8. *Per contra*, among others, Mr. Somnath Shukla, learned counsel appearing on behalf of the respondents would

submit that the *ratio* and observations in **Sun Export Case** (supra) has to be considered holistically without giving any narrow meaning to the conclusion arrived therein. The rule of strict interpretation cannot be applied in abstract. It has to be applied keeping in view the interpretation to be used in relation to Customs Tariff Entry. According to the learned counsel, when the Customs Tariff Entry is interpreted broadly, the same should be adopted in interpreting exemption notification. Indeed, the learned senior counsel would contend that the rule of strict interpretation should be limited to the eligibility conditions of an exemption notification and while conferring the benefits to such exemption. He distinguished all the judgments relied on by the appellants and submits that “*prawn feed supplements*” would also be included under the head “*prawn feed*”, and the judgment of the Tribunal

impugned in these appeals does not warrant any interference.

9. ***Sun Export Case*** (supra) was a case against the judgment of the High Court of Judicature, Bombay. It was concerned with the interpretation of tax exemption notification, being Notification No. 234/1982 – CE, dated 01.11.1982, issued by the Central Government under sub-section (1) of Section 25 of the Customs Act. The High Court considered the issue whether Vitamin AD-3 mix (feed grade)/animal feed supplement could be included under the head ‘animal feed, including compound livestock feed’. The Bombay High Court decided, in the affirmative, in favour of the assessee. The case then landed in this Court, which was persuaded to expand the meaning of ‘animal feed’ in the light of subsequent notification issued in 1984, which largely expanded the scope of exemption to the effect

that ‘*animal feed, including compound livestock feed, animal feed supplements and animal feed concentrates*’.

This Court indeed countenanced the plea, namely, whenever there is ambiguity as to whether the subject matter was included or not, then the benefit of the same should be conferred on the assessee. The relevant portion in ***Sun Export Case*** (supra), reads as follows:

“13. We are in agreement with the above view expressed by the Bombay High Court. No doubt it was contended on behalf of the Revenue that the contrary view taken by the Tribunal has been challenged in this Court which was rejected *in limine* at the admission stage. We do not think that dismissal at the admission stage can be relied upon as a binding precedent. **Even assuming that there are two views possible, it is well settled that one favourable to the assessee in matters of taxation has to be preferred.**”

(emphasis supplied)

10. There cannot be any doubt that the *ratio* in **Sun Export Case** (supra) that, if two views are possible in interpreting the exemption notification, the one favourable to the assessee in the matter of taxation has to be preferred. This principle created confusion and resulted in *unsatisfactory state of law*. In spite of catena of judgments of this Court, which took the *contra* view, holding that an exemption notification must be strictly construed, and if a person claiming exemption does not fall strictly within the description of the notification otherwise then he cannot claim exemption.

11. About three years after **Sun Export Case** (supra), in the year 2000, this Court in **Surendra Cotton Oil Mills Case** (supra), expressed reservations as to the soundness of the dicta in **Sun Export Case** (supra), observing that **Sun Export Case** (supra) ignored catena

of judgments of this Court expressing *contra* view. This Court *prima facie* came to the conclusion with regard to the principle that when two views are possible, one favourable to the assessee in matters of taxation has to be preferred, is unexceptionable when interpreting the charging section of a taxation statute, but the opposite principle would be applicable in interpretation of exemption notification. The three-Judge Bench in the referral order further observed that the views expressed in **Sun Export Case** (supra) with regard to interpretation of exemption notification to support the conclusion, required reconsideration.

12. We may, here itself notice that the distinction in interpreting a taxing provision (charging provision) and in the matter of interpretation of exemption notification is too obvious to require any elaboration. Nonetheless, in a nutshell, we may mention that, as observed in

Surendra Cotton Oil Mills Case (supra), in the matter of interpretation of charging section of a taxation statute, strict rule of interpretation is mandatory and if there are two views possible in the matter of interpretation of a charging section, the one favourable to the assessee need to be applied. There is, however, confusion in the matter of interpretation of exemption notification published under taxation statutes and in this area also, the decisions are galore¹.

13. We may passingly, albeit, briefly reiterate the general principles of interpretation, which were also adverted to

¹ See: **Sun Export Corporation, Bombay v. Collector of Customs, Bombay and Anr.**, (1997) 6 SCC 564; **Commissioner of Central Excise, Pune v. Abhi Chemicals and Pharmaceuticals Pvt. Ltd.**, (2005) 3 SCC 541; **Collector of Central Excise, Bombay-1 and Anr. v. Parle Exports (Pvt.) Ltd.**, (1989) 1 SCC 345; **Commissioner of Customs (Import), Mumbai v. Konkan Synthetic Fibres**, (2012) 6 SCC 339; **Collector of Customs, Bombay v. Swastic Wollens (Pvt.) Ltd. And Ors.**, (1988) Supp. SCC 796; **Commissioner of Customs (Preventive), Gujarat v. Reliance Petroleum Ltd.**, (2008) 7 SCC 220.

by both the counsel. In his treatise, '**Principles of Statutory Interpretation**' Justice G.P. Singh, lucidly pointed the importance of construction of statutes in a modern State as under:

“Legislation in modern State is actuated with some policy to curb some public evil or to effectuate some public benefit. The legislation is primarily directed to the problems before the Legislature based on information derived from past and present experience. It may also be designed by use of general words to cover similar problems arising in future. But, from the very nature of things, it is impossible to anticipate fully the varied situations arising in future in which the application of the legislation in hand may be called for, and, words chosen to communicate such indefinite 'referents' are bound to be, in many cases lacking in clarity and precision and thus giving rise to

controversial questions of
construction.”

14.An Act of Parliament/Legislature cannot foresee all types of situations and all types of consequences. It is for the Court to see whether a particular case falls within the broad principles of law enacted by the Legislature. Here, the principles of interpretation of statutes come in handy. In spite of the fact that experts in the field assist in drafting the Acts and Rules, there are many occasions where the language used and the phrases employed in the statute are not perfect. Therefore, Judges and Courts need to interpret the words.

15.In doing so, the principles of interpretation have been evolved in common law. It has also been the practice for the appropriate legislative body to enact Interpretation Acts or General Clauses Act. In all the Acts and Regulations, made either by the Parliament or

Legislature, the words and phrases as defined in the General Clauses Act and the principles of interpretation laid down in General Clauses Act are to be necessarily kept in view. If while interpreting a Statutory law, any doubt arises as to the meaning to be assigned to a word or a phrase or a clause used in an enactment and such word, phrase or clause is not specifically defined, it is legitimate and indeed mandatory to fall back on General Clauses Act. Notwithstanding this, we should remember that when there is repugnancy or conflict as to the subject or context between the General Clauses Act and a statutory provision which falls for interpretation, the Court must necessarily refer to the provisions of statute.

- 16.** The purpose of interpretation is essentially to know the intention of the Legislature. Whether the Legislature intended to apply the law in a given case; whether the

Legislature intended to exclude operation of law in a given case; whether Legislature intended to give discretion to enforcing authority or to adjudicating agency to apply the law, are essentially questions to which answers can be sought only by knowing the intention of the legislation. Apart from the general principles of interpretation of statutes, there are certain internal aids and external aids which are tools for interpreting the statutes.

17. The long title, the preamble, the heading, the marginal note, punctuation, illustrations, definitions or dictionary clause, a *proviso* to a section, explanation, examples, a schedule to the Act etc., are internal aids to construction. The external aids to construction are Parliamentary debates, history leading to the legislation, other statutes which have a bearing, dictionaries, thesaurus.

18. It is well accepted that a statute must be construed according to the intention of the Legislature and the Courts should act upon the true intention of the legislation while applying law and while interpreting law. If a statutory provision is open to more than one meaning, the Court has to choose the interpretation which represents the intention of the Legislature. In this connection, the following observations made by this Court in ***District Mining Officer vs. Tata Iron and Steel Co.***, (2001) 7 SCC 358, may be noticed:

“... A statute is an edict of the Legislature and in construing a statute, it is necessary, to seek the intention of its maker. A statute has to be construed according to the intent of them that make it and the duty of the Court is to act upon the true intention of the Legislature. If a

statutory provision is open to more than one interpretation the Court has to choose that interpretation which represents the true intention of the Legislature. This task very often raises the difficulties because of various reasons, inasmuch as the words used may not be scientific symbols having any precise or definite meaning and the language may be an imperfect medium to convey one's thought or that the assembly of Legislatures consisting of persons of various shades of opinion purport to convey a meaning which may be obscure. It is impossible even for the most imaginative Legislature to forestall exhaustively situations and circumstances that may emerge after enacting a statute where its application may be called for. Nonetheless, the function of the Courts is only to expound and not to legislate. Legislation in a modern State is actuated with some policy to curb some public evil or to effectuate some public benefit. The legislation is primarily directed to the problems before the Legislature based on information derived from past and present experience. It may also be designed by use

of general words to cover similar problems arising in future. But, from the very nature of things, it is impossible to anticipate fully the varied situations arising in future in which the application of the legislation in hand may be called for, and, words chosen to communicate such indefinite referents are bound to be in many cases lacking in clarity and precision and thus giving rise to controversial questions of construction. The process of construction combines both literal and purposive approaches. In other words the legislative intention i.e., the true or legal meaning of an enactment is derived by considering the meaning of the words used in the enactment in the light of any discernible purpose or object which comprehends the mischief and its remedy to which the enactment is directed...”

19. The well settled principle is that when the words in a statute are clear, plain and unambiguous and only one meaning can be inferred, the Courts are bound to give

effect to the said meaning irrespective of consequences. If the words in the statute are plain and unambiguous, it becomes necessary to expound those words in their natural and ordinary sense. The words used declare the intention of the Legislature. In ***Kanai Lal Sur v. Paramnidhi Sadhukhan***, AIR 1957 SC 907, it was held that if the words used are capable of one construction only then it would not be open to the Courts to adopt any other hypothetical construction on the ground that such construction is more consistent with the alleged object and policy of the Act.

20. In applying rule of plain meaning any hardship and inconvenience cannot be the basis to alter the meaning to the language employed by the legislation. This is especially so in fiscal statutes and penal statutes. Nevertheless, if the plain language results in absurdity, the Court is entitled to determine the meaning of the

word in the context in which it is used keeping in view the legislative purpose.² Not only that, if the plain construction leads to anomaly and absurdity, the court having regard to the hardship and consequences that flow from such a provision can even explain the true intention of the legislation. Having observed general principles applicable to statutory interpretation, it is now time to consider rules of interpretation with respect to taxation.

21. In construing penal statutes and taxation statutes, the Court has to apply strict rule of interpretation. The penal statute which tends to deprive a person of right to life and liberty has to be given strict interpretation or else many innocent might become victims of discretionary decision making. Insofar as taxation statutes are concerned, Article 265 of the Constitution³

² ***Assistant Commissioner, Gadag Sub-Division, Gadag v. Mathapathi Basavanneewa***, 1995 (6) SCC 355.

³ **265. Taxes not to be imposed save by authority of law-**
No tax shall be levied or collected except by authority of law.

prohibits the State from extracting tax from the citizens without authority of law. It is axiomatic that taxation statute has to be interpreted strictly because State cannot at their whims and fancies burden the citizens without authority of law. In other words, when competent Legislature mandates taxing certain persons/certain objects in certain circumstances, it cannot be expanded/interpreted to include those, which were not intended by the Legislature.

22.At the outset, we must clarify the position of ‘plain meaning rule or clear and unambiguous rule’ with respect of tax law. ‘The plain meaning rule’ suggests that when the language in the statute is plain and unambiguous, the Court has to read and understand the plain language as such, and there is no scope for any interpretation. This salutary maxim flows from the phrase “*cum in verbis nulla ambiguitas est, non debet*

admitti voluntatis quaestio". Following such maxim, the courts sometimes have made strict interpretation subordinate to the plain meaning rule⁴, though strict interpretation is used in the precise sense. To say that strict interpretation involves plain reading of the statute and to say that one has to utilize strict interpretation in the event of ambiguity is self-contradictory.

23.Next, we may consider the meaning and scope of 'strict interpretation', as evolved in Indian law and how the higher Courts have made a distinction while interpreting a taxation statute on one hand and tax exemption notification on the other. In Black's Law Dictionary (10th Edn.) 'strict interpretation' is described as under:

Strict interpretation. (16c) 1. An interpretation according to the narrowest, most literal meaning of the words without regard for context and other permissible

⁴ **Mangalore Chemicals Case** (Infra para 37).

meanings. 2. An interpretation according to what the interpreter narrowly believes to have been the specific intentions or understandings of the text's authors or ratifiers, and no more.- Also termed (in senses 1 & 2) strict construction, literal interpretation; literal construction; restricted interpretation; interpretatio stricta; interpretatio restricta; interpretatio verbalis. 3. The philosophy underlying strict interpretation of statutes.- Also termed as close interpretation; interpretatio restrictive. See strict constructionism under constructionism. Cf. large interpretation; liberal interpretation (2).

"Strict construction of a statute is that which refuses to expand the law by implications or equitable considerations, but confines its operation to cases which are clearly within the letter of the statute, as well as within its spirit or reason, not so as to defeat the manifest purpose of the legislature, but so as to resolve all reasonable doubts against the applicability of the statute to the particular case.' Willam M. Lile et al.,

Brief Making and the use of Law Books
343 (Roger W. Cooley & Charles Lesly
Ames eds., 3d ed. 1914).

“Strict interpretation is an equivocal
expression, for it means either literal or
narrow. When a provision is ambiguous,
one of its meaning may be wider than the
other, and the strict (i.e., narrow) sense is
not necessarily the strict (i.e., literal)
sense.” John Salmond , Jurisprudence
171 n. (t) (Glanville L. Williams ed., 10th
ed. 1947).

24.As contended by Ms. Pinky Anand, learned Additional
Solicitor General, the principle of literal interpretation
and the principle of strict interpretation are sometimes
used interchangeably. This principle, however, may not
be sustainable in all contexts and situations. There is
certainly scope to sustain an argument that all cases of
literal interpretation would involve strict rule of
interpretation, but strict rule may not necessarily
involve the former, especially in the area of taxation.

The decision of this Court in ***Punjab Land Development and Reclamation Corporation Ltd., Chandigarh v. Presiding Officer, Labour Court Chandigarh and Ors.***, (1990) 3 SCC 682, made the said distinction, and explained the literal rule-

“The literal rules of construction require the wording of the Act to be construed according to its literal and grammatical meaning whatever the result may be. Unless otherwise provided, the same word must normally be construed throughout the Act in the same sense, and in the case of old statutes regard must be had to its contemporary meaning if there has been no change with the passage of time.”

That strict interpretation does not encompass strict-literalism into its fold. It may be relevant to note that simply juxtaposing ‘strict interpretation’ with ‘literal rule’ would result in ignoring an important aspect that

is 'apparent legislative intent'. We are alive to the fact that there may be overlapping in some cases between the aforesaid two rules. With certainty, we can observe that, 'strict interpretation' does not encompass such literalism, which lead to absurdity and go against the legislative intent. As noted above, if literalism is at the far end of the spectrum, wherein it accepts no implications or inferences, then 'strict interpretation' can be implied to accept some form of essential inferences which literal rule may not accept.

25. We are not suggesting that literal rule *de hors* the strict interpretation nor one should ignore to ascertain the interplay between 'strict interpretation' and 'literal interpretation'. We may reiterate at the cost of repetition that strict interpretation of a statute certainly involves literal or plain meaning test. The other tools of interpretation, namely contextual or purposive

interpretation cannot be applied nor any resort be made to look to other supporting material, especially in taxation statutes. Indeed, it is well settled that in a taxation statute, there is no room for any intendment; that regard must be had to the clear meaning of the words and that the matter should be governed wholly by the language of the notification. Equity has no place in interpretation of a tax statute. Strictly one has to look to the language used; there is no room for searching intendment nor drawing any presumption. Furthermore, nothing has to be read into nor should anything be implied other than essential inferences while considering a taxation statute.

26. Justice G.P. Singh, in his treatise '**Principles of Statutory Interpretation**' (14th ed. 2016 p. – 879) after referring to **Re, Micklethwait**, (1885) 11 Ex 452; **Partington v. A.G.**, (1869) LR 4 HL 100; **Rajasthan**

Rajya Sahakari Spinning & Ginning Mills

Federation Ltd. v. Deputy CIT, Jaipur, (2014) 11 SCC

672, **State Bank of Travancore v. Commissioner of**

Income Tax, (1986) 2 SCC 11 and **Cape Brandy**

Syndicate v. IRC, (1921) 1 KB 64, summed up the law

in the following manner-

“A taxing statute is to be strictly construed. The well-established rule in the familiar words of LORD WENSLEYDALE, reaffirmed by LORD HALSBURY AND LORD SIMONDS, means: ‘The subject is not to be taxed without clear words for that purpose; and also that every Act of Parliament must be read according to the natural construction of its words. In a classic passage LORD CAIRNS stated the principle thus: “If the person sought to be taxed comes within the letter of the law he must be taxed, however great the hardship may appear to the judicial mind to be. On the other hand, if the Crown seeking to recover the tax, cannot bring the subject within the letter of the law, the subject is

free, however apparently within the spirit of law the case might otherwise appear to be. In other words, if there be admissible in any statute, what is called an equitable construction, certainly, such a construction is not admissible in a taxing statute where you can simply adhere to the words of the statute. VISCOUNT SIMON quoted with approval a passage from ROWLATT, J. expressing the principle in the following words: "In a taxing Act one has to look merely at what is clearly said. This is no room for any intendment. There is no equity about a tax. There is no presumption as to tax. Nothing is to be read in, nothing is to be implied. One can only look fairly at the language used."

It was further observed:

"In all tax matters one has to interpret the taxation statute strictly. Simply because one class of legal entities is given a benefit which is specifically stated in the Act, does not mean that the benefit can be extended to legal entities not referred to in the Act as there is no equity in matters of taxation...."

Yet again, it was observed:

“It may thus be taken as a maxim of tax law, which although not to be overstressed ought not to be forgotten that, “the subject is not to be taxed unless the words of the taxing statute unambiguously impose the tax on him”, [Russel v. Scott, (1948) 2 All ER 1]. The proper course in construing revenue Acts is to give a fair and reasonable construction to their language without leaning to one side or the other but keeping in mind that no tax can be imposed without words clearly showing an intention to lay the burden and that equitable construction of the words is not permissible [Ormond Investment Co. v. Betts, (1928) AC 143]. Considerations of hardship, injustice or anomalies do not play any useful role in construing taxing statutes unless there be some real ambiguity [Mapp v. Oram, (1969) 3 All ER 215]. It has also been said that if taxing provision is “so wanting in clarity that no meaning is reasonably clear, the courts will be unable to regard it as of any effect

[IRC v. Ross and Coutler, (1948) 1 All ER 616].”

Further elaborating on this aspect, the learned author stated as follows:

“Therefore, if the words used are ambiguous and reasonable open to two interpretations benefit of interpretation is given to the subject [Express Mill v. Municipal Committee, Wardha, AIR 1958 SC 341]. If the Legislature fails to express itself clearly and the taxpayer escapes by not being brought within the letter of the law, no question of unjustness as such arises [CIT v. Jalgaon Electric Supply Co., AIR 1960 SC 1182]. But equitable considerations are not relevant in construing a taxing statute, [CIT, W.B. v. Central India Industries, AIR 1972 SC 397], and similarly logic or reason cannot be of much avail in interpreting a taxing statute [Azam Jha v. Expenditure Tax Officer, Hyderabad, AIR 1972 SC 2319]. It is well settled that in the field of taxation, hardship or equity has no role to play in determining eligibility to tax and it is for

the Legislature to determine the same [Kapil Mohan v. Commr. of Income Tax, Delhi, AIR 1999 SC 573]. Similarly, hardship or equity is not relevant in interpreting provisions imposing stamp duty, which is a tax, and the court should not concern itself with the intention of the Legislature when the language expressing such intention is plain and unambiguous [State of Madhya Pradesh v. Rakesh Kohli & Anr., (2012) 6 SCC 312]. But just as reliance upon equity does not avail an assessee, so it does not avail the Revenue.”

The passages extracted above, were quoted with approval by this Court in at least two decisions being ***Commissioner of Income Tax vs. Kasturi Sons Ltd.***, (1999) 3 SCC 346 and ***State of West Bengal vs. Kesoram Industries Limited***, (2004) 10 SCC 201 [hereinafter referred as ‘**Kesoram Industries Case**’ for brevity]. In the later decision, a Bench of seven Judges, after citing the above

passage from Justice G.P. Singh's treatise, summed up the following principles applicable to the interpretation of a taxing statute:

“(i) In interpreting a taxing statute, equitable considerations are entirely out of place. A taxing statute cannot be interpreted on any presumption or assumption. A taxing statute has to be interpreted in the light of what is clearly expressed; it cannot imply anything which is not expressed; it cannot import provisions in the statute so as to supply any deficiency; (ii) Before taxing any person, it must be shown that he falls within the ambit of the charging section by clear words used in the section; and (iii) If the words are ambiguous and open to two interpretations, the benefit of interpretation is given to the subject and there is nothing unjust in a taxpayer escaping if the letter of the law fails to catch him on account of Legislature's failure to express itself clearly”.

27. Now coming to the other aspect, as we presently discuss, even with regard to exemption clauses or exemption notifications issued under a taxing statute, this Court in some cases has taken the view that the ambiguity in an exemption notification should be construed in favour of the subject. In subsequent cases, this Court diluted the principle saying that mandatory requirements of exemption clause should be interpreted strictly and the directory conditions of such exemption notification can be condoned if there is sufficient compliance with the main requirements. This, however, did not in any manner tinker with the view that an ambiguous exemption clause should be interpreted favouring the revenue. Here again this Court applied different tests when considering the ambiguity of the exemption notification which requires strict construction and after doing so at the stage of

applying the notification, it came to the conclusion that one has to consider liberally.

28. With the above understanding the stage is now set to consider the core issue. In the event of ambiguity in an exemption notification, should the benefit of such ambiguity go to the subject/assessee or should such ambiguity should be construed in favour of the revenue, denying the benefit of exemption to the subject/assessee? There are catena of case laws in this area of interpretation of an exemption notification, which we need to consider herein. The case of ***Commissioner of Inland Revenue vs. James Forrest***, [(1890) 15 AC 334 (HL)] – is a case which does not discuss the interpretative test to be applied to exemption clauses in a taxation statute – however, it was observed that *‘it would be unreasonable to suppose that an exemption was wide as practicable to make the*

tax inoperative, that it cannot be assumed to have been in the mind of the Legislature’ and that exemption ‘from taxation to some extent increased the burden on other members of the community’. Though this is a dissenting view of Lord Halsbury, LC, in subsequent decisions this has been quoted vividly to support the conclusion that any vagueness in the exemption clauses must go to the benefit of the revenue. Be that as it is, in our country, at least from 1955, there appears to be a consistent view that if the words in a taxing statute (not exemption clause) are ambiguous and open to two interpretations, the benefit of interpretation is given to the subject and it does not matter if the taxpayer escapes the tax net on account of Legislatures’ failure to express itself clearly (See the passage extracted hereinabove from **Kesoram Industries Case** (supra)).

29. The first case with which we need to concern ourselves is the case in ***Union of India v. The Commercial Tax Officer, West Bengal and Ors.***, AIR 1956 SC 202. It may be noted that this case was dealt with by five learned Judges of this Court resulting in two different opinions; one by the then Chief Justice of India, S.R. Das for the majority, and Justice B.P. Sinha (as His Lordship then was) rendering minority view. The question before this Court was whether the sale of goods made by one private mill to the Government of India, Ministry of Industries and Supplies were to be deducted as taxable turnover of the mill for the exemption given under Section 5 of the Bengal Finance (Sales Tax) Act, 1941 (Bengal Act VI of 1941). The exemption under Section 5(2)(a)(iii) of the Bengal Finance (Sales Tax) Act, 1941 provided for exemption '*to sales to the Indian Stores Department, the Supply Department of the Government of India, and any railway or water transport*

administration'. The Court was to interpret the aforesaid provision in order to ascertain whether the sale to the Government of India, Ministry of Industries and Supplies would be covered under the Section.

30. The majority was of the view that the Government of India, Ministry of Industries and Supplies was not similar to those mentioned in the exemption notification. The majority extensively relied on the history and origin of Ministry of Industries and Supplies and concluded that the functions of the aforesaid Ministry were different from the erstwhile departments mentioned under the exemption provision. The majority reasoned that the exemption being the creation of the statute itself, it should have to be construed strictly and the interpretation cannot be extended to sales to other departments. We might find some clue as to the content of a strict construction also. It was canvassed

before the Court that the object of Section 5(2)(a)(iii) of the relevant statute, was to give exemption not to the particular departments but to the sale of such goods to those departments and, therefore, sale of those goods made to any Departments of the Government of India, which came to be charged with the duty of purchasing those goods should also come within the purview of the exemption. The Court while repelling the aforesaid interpretation, reasoned as under:

“We are unable to accept this line of reasoning. This interpretation will unduly narrow the scope and ambit of the exemption by limiting it to sales of only those goods as, at the date of the Act, used to be sold to those two departments and sales of other goods even to those two departments, however necessary for the prosecution of the war, would not get benefit of the exemption. Such could not possibly be the intention of the Legislature as expressed by the language used by it in framing the Section.”

31. The aforesaid placitum is suggestive of the fact that the Courts utilized the rule of strict interpretation in order to decipher the intention of the Legislature and thereafter provide appropriate interpretation for the exemption provided under the provisions of the Act which was neither too narrow nor too broad. It may be noted that the majority did not take a narrow view as to what strict interpretation would literally mean; rather they combined legislative intent to ascertain the meaning of the statute in accordance with the objective intent of the Legislature.

32. On the contrary, the minority opinion of Justice B.P. Sinha (as His Lordship then was) provided a purposive interpretation for Section 5(2)(a)(iii) of the Act, which is clear from the following passage:

“The judgment under appeal is based chiefly on the consideration that the exemption clause in question does not in

terms refer to the newly created department which now goes by the name of the Ministry of Industry and Supply. But this department in so far as it deals with industry, is not concerned with the main purchasing activities of the Government of India. The exemption was granted in respect of the purchasing activity of the Government of India and that function continues to be assigned to the Supply Department which has now become a wing of the newly created department of the Government. The question therefore arises whether in those circumstances the Government of India could claim the benefit of the exemption. The High Court in answering that question in the negative has gone upon mere nomenclature. It has emphasized the change in the name and overlooked the substance of the matter.”

33. The minority construed ‘strict interpretation’ to be an interpretation wherein least number of “determinates in terms of quantity” would fall under the exemption. The minority referred to an old English case of

Commissioner of Inland Revenue v. James Forrest,

(1890) 15 AC 334. It may be relevant to note that the minority could not find the justification to apply strict interpretation as the exemption notification was broad enough to include exemptions for commodities purchased by the Government of India. The Court was of the opinion that the strict interpretation provided by the majority was uncalled for as there was no additional burden on others by giving such exemptions. The relevant observations are as follows-

“The High Court referred to the observations of Lord Halsbury in the case of *Commissioner of Inland Revenue v. James Forrest* (1890) 15 AC 334, to the effect that exemptions from taxation should be strictly construed because otherwise the burden of taxation will fall on other members of the community. Those observations, in my opinion, have no relevance to the facts and circumstances of the present controversy, because we know that the exemption was granted to the Government of India in the

department dealing with purchase of certain commodities and articles without reference to quantity. As already pointed out, the Indian Stores Department was concerned with purchase of stores for public services on behalf of all Central Departments of Government and local Government, etc., and the Government of Bengal as then constituted was one of the provinces of India which have been receiving subsidies and subventions to make up the deficit in their budgets. As a matter of fact, as stated on behalf of the Bengal Government the concession was granted in order to enable business communities within the province of Bengal to compete on favourable terms with others outside Bengal in the matter of supplying the needs of the Government. Hence, there is no question of liberal construction of the exemption resulting in throwing a greater burden on other citizens. On the other hand, the larger the sales in the province of Bengal as it used to be, the greater the benefit to the business community doing business within that province. It was therefore stated at the Bar that though the present case involved taxes

amounting to less than Rs.10,000, the question arising for determination in this case affected much larger amounts because such sales within the province amounted to several crores. I should have thought that the business community in the province of Bengal having had the advantage of the transactions of sale, the Government of Bengal in all fairness should have allowed the purchasing agency of the Government of India the benefit of the exemption until that benefit was in terms withdrawn sometimes in the beginning of 1949.”

34. In ***Hansraj Gordhandas v. H.H. Dave, Asst. Collector of Central Excise & Customs, Surat and Ors.***, AIR 1970 SC 755 = (1969) 2 SCR 253 [*hereinafter referred as ‘Hansraj Gordhandas Case’ for brevity*], wherein this Court was called upon to interpret an exemption notification issued under the Central Excise Act. It would be relevant to understand the factual context which gave rise to the aforesaid case before the Court. The appellant was sole proprietor who used to procure

cotton from a co-operative society during the relevant period. The society had agreed to carry out the weaving work for the appellant on payment of fixed weaving charges at Re.0.19 np. per yard which included expenses the society would have to incur in transporting the aforesaid cotton fabric. In the years 1959 and 1960, the Government issued an exemption notification which exempted cotton fabrics produced by any co-operative society formed of owners of cotton power looms, registered on or before 31st March, 1961. The question before the Court was whether the appellant who got the cotton fabric produced from one of the registered co-operative society was also covered under the aforesaid notification. It may be of some significance that the revenue tried to interpret the aforesaid exemption by relying on the purposive interpretation by contending that the object of granting the above exemption was to encourage the formation of co-operative societies which

not only produced cotton fabrics but also consisted of members, not only owning but having actually operated not more than four power looms during the three years immediately preceding their having joined the society. The policy was that instead of each such member operating his looms on his own, he should combine with others by forming a society to produce clothes. It was argued that the goods produced for which exemption could be claimed must be goods produced on his own and on behalf by the society. The court did not countenance such purposive interpretation. It was held that a taxing legislation should be interpreted wholly by the language of the notification. The relevant observations are:

“It is well-established that in a taxing statute there is no room for any intendment but regard must be had to the clear meaning of the words. The entire matter is governed wholly by the language of the notification. If the tax-payer is within the plain terms of the

exemption it cannot be denied its benefit by calling in aid any supposed intention of the exempting authority. If such intention can be gathered from the construction of the words of the notification or by necessary implication therefrom, the matter is different, but that is not the case here. In this connection we may refer to the observations of Lord Watson in *Salomon vs. Salomon & Co.*, (1897) AC 22):

‘Intention of the Legislature is a common but very slippery phrase, which, popularly understood may signify anything from intention embodied in positive enactment to speculative opinion as to what the legislature probably would have meant, although there has been an omission to enact it. In a Court of Law or Equity, what the Legislature intended to be done or not to be done can only be legitimately ascertained from that which it has chosen to enact, either in express words or by reasonable and necessary implication.’

It is an application of this principle that a statutory notification may not be extended so as to meet a casus omissus. As appears in

the judgment of the Privy Council in *Crawford v. Spooner*.

‘... we cannot aid the Legislature’s defective phrasing of the Act, we cannot add, and mend, and, by construction, make up deficiencies which are left there.’

Learned Counsel for the respondents is possibly right in his submission that the object behind the two notifications is to encourage the actual manufacturers of handloom cloth to switch over to power looms by constituting themselves in co-operative Societies. But the operation of the notifications has to be judged not by the object which the rule making authority had in mind but by the words which it has employed to effectuate the legislative intent.”

35.In the judgment of two learned Judges in ***Union of India v. Wood Papers Limited***, (1990) 4 SCC 256 [hereinafter referred as **‘Wood Papers Ltd. Case’** for brevity], a distinction between stage of finding out the eligibility to seek exemption and stage of applying the nature of exemption was made. Relying on the decision

in ***Collector of Central Excise vs. Parle Exports (P) Ltd.***, (1989) 1 SCC 345, it was held “*Do not extend or widen the ambit at the stage of applicability. But once that hurdle is crossed, construe it liberally*”. The reasoning for arriving at such conclusion is found in para 4 of ***Wood Papers Ltd. Case*** (supra), which reads-

“... Literally exemption is freedom from liability, tax or duty. Fiscally, it may assume varying shapes, specially, in a growing economy. For instance tax holiday to new units, concessional rate of tax to goods or persons for limited period or with the specific objective etc. That is why its construction, unlike charging provision, has to be tested on different touchstone. In fact, an exemption provision is like an exception and on normal principle of construction or interpretation of statutes it is construed strictly either because of legislative intention or on economic justification of inequitable burden or progressive approach of fiscal provisions intended to augment State revenue. But once exception or exemption

becomes applicable no rule or principles requires it to be construed strictly. **Truly speaking liberal and strict construction of an exemption provision are to be invoked at different stages of interpreting it. When the question is whether a subject falls in the notification or in the exemption clause then it being in nature of exception is to be construed strictly and against the subject, but once ambiguity or doubt about applicability is lifted and the subject falls in the notification then full play should be given to it and it calls for a wider and liberal construction...**"

(emphasis supplied)

36.In *Mangalore Chemicals & Fertilizers Ltd. vs. Dy.*

Commissioner of Commercial Taxes, (1992) Supp. 1

SCC 21 [*hereinafter referred as 'Mangalore Chemicals*

Case' *for brevity*], the facts of the case were that the

State Government issued a notification in exercise of power under Section 8-A of the Karnataka Sales Tax

Act, 1957, providing certain incentives to entrepreneurs starting new industries in the State pursuant to State's policy for "rapid industrialization". The notification contains a package of reliefs and incentives including one concerning relief from payment of sales tax with which the case was concerned. There was no dispute that the appellant was entitled to the benefit of the Notification dated June 30, 1969. There was also no dispute that the refunds were eligible to be adjusted against sales tax payable for respective years. The only controversy was whether the appellant, not having actually secured the "prior permission" would be entitled to adjustment having regard to the words of the Notification of August 11, 1975, that "until permission of renewal is granted by the Deputy Commissioner of Commercial Taxes, the new industry should not be allowed to adjust the refunds". The contention of the appellants therein was that the permission for the three

years had been sought well before the commencement of the respective years but had been withheld for reasons which were demonstrably extraneous. Therefore, contention was that if, in these circumstances, the Deputy Commissioner could withhold the permission.

37. This Court while accepting the interpretation provided by the appellant, observed on the aspect of strict construction of a provision concerning exemptions as follows:

“... There is support of judicial opinion to the view that exemptions from taxation have a tendency to increase the burden on the other unexempted class of tax payers and should be construed against the subject in case of ambiguity. It is an equally well known principle that a person who claims an exemption has to establish his case.

... The choice between a strict and a liberal construction arises only in case of

doubt in regard to the intention of the legislature manifest on the statutory language. Indeed, the need to resort to any interpretative process arises only where the meaning is not manifest on the plain words of the statute. If the words are plain and clear and directly convey the meaning, there is no need for any interpretation. It appears to us the true rule of construction of a provision as to exemption is the one stated by this Court in *Union of India v. Wood Papers Ltd.* [(1990) 4 SCC 256 = 1990 SCC (Tax) 422 = JT (1991) SC 151]”

Three important aspects which comes out of the discussion are the recognition of horizontal equity by this court as a consideration for application of strict interpretation, subjugation of strict interpretation to the plain meaning rule and interpretation in favour of exclusion in light of ambiguity.

38. We will now consider another Constitution Bench decision in ***Commissioner of Central Excise, New Delhi v. Hari Chand Shri Gopal***, (2011) 1 SCC 236 [hereinafter referred as '**Hari Chand Case**' for brevity].

We need not refer to the facts of the case which gave rise to the questions for consideration before the Constitutional Bench. K.S. Radhakrishnan, J., who wrote the unanimous opinion for the Constitution Bench, framed the question, viz., whether manufacturer of a specified final product falling under Schedule to the Central Excise Tariff Act, 1985 is eligible to get the benefit of exemption of remission of excise duty on specified intermediate goods as per the Central Government Notification dated 11.08.1994, if captively consumed for the manufacture of final product on the ground that the records kept by it at the recipient end would indicate its “intended use” and “substantial compliance” with procedure set out in Chapter 10 of the

Central Excise Rules, 1994, for consideration? The Constitution Bench answering the said question concluded that a manufacturer qualified to seek exemption was required to comply with the pre-conditions for claiming exemption and therefore is not exempt or absolved from following the statutory requirements as contained in the Rules. The Constitution Bench then considered and reiterated the settled principles *qua* the test of construction of exemption clause, the mandatory requirements to be complied with and the distinction between the eligibility criteria with reference to the conditions which need to be strictly complied with and the conditions which need to be substantially complied with. The Constitution Bench followed the *ratio* in ***Hansraj Gordhandas Case*** (supra), to reiterate the law on the aspect of interpretation of exemption clause in para 29 as follows-

“The law is well settled that a person who claims exemption or concession has to establish that he is entitled to that exemption or concession. A provision providing for an exemption, concession or exception, as the case may be, has to be construed strictly with certain exceptions depending upon the settings on which the provision has been placed in the statute and the object and purpose to be achieved. If exemption is available on complying with certain conditions, the conditions have to be complied with. The mandatory requirements of those conditions must be obeyed or fulfilled exactly, though at times, some latitude can be shown, if there is failure to comply with some requirements which are directory in nature, the non-compliance of which would not affect the essence or substance of the notification granting exemption.”

39. The Constitution Bench then considered the doctrine of substantial compliance and “intended use”. The

relevant portions of the observations in paras 31 to 34 are in the following terms –

“31. Of course, some of the provisions of an exemption notification may be directory in nature and some are mandatory in nature. A distinction between the provisions of a statute which are of substantive character and were built in with certain specific objectives of policy, on the one hand, and those which are merely procedural and technical in their nature, on the other, must be kept clearly distinguished...

Doctrine of substantial compliance and “intended use”

32. The doctrine of substantial compliance is a judicial invention, equitable in nature, designed to avoid hardship in cases where a party does all that can reasonably be expected of it, but failed or faulted in some minor or inconsequential aspects which cannot be described as the “essence” or the “substance” of the requirements. Like the concept of “reasonableness”, the acceptance or otherwise of a plea of “substantial compliance” depends upon the facts and circumstances of each case and the purpose

and object to be achieved and the context of the prerequisites which are essential to achieve the object and purpose of the rule or the regulation. Such a defence cannot be pleaded if a clear statutory prerequisite which effectuates the object and the purpose of the statute has not been met. Certainly, it means that the Court should determine whether the statute has been followed sufficiently so as to carry out the intent for which the statute was enacted and not a mirror image type of strict compliance. Substantial compliance means “actual compliance in respect to the substance essential to every reasonable objective of the statute” and the Court should determine whether the statute has been followed sufficiently so as to carry out the intent of the statute and accomplish the reasonable objectives for which it was passed.

33. A fiscal statute generally seeks to preserve the need to comply strictly with regulatory requirements that are important, especially when a party seeks the benefits of an exemption clause that are important. Substantial compliance with an enactment is insisted, where mandatory and directory

requirements are lumped together, for in such a case, if mandatory requirements are complied with, it will be proper to say that the enactment has been substantially complied with notwithstanding the non-compliance of directory requirements. In cases where substantial compliance has been found, there has been actual compliance with the statute, albeit procedurally faulty. The doctrine of substantial compliance seeks to preserve the need to comply strictly with the conditions or requirements that are important to invoke a tax or duty exemption and to forgive non-compliance for either unimportant and tangential requirements or requirements that are so confusingly or incorrectly written that an earnest effort at compliance should be accepted.

34. The test for determining the applicability of the substantial compliance doctrine has been the subject of a myriad of cases and quite often, the critical question to be examined is whether the requirements relate to the “substance” or “essence” of the statute, if so, strict adherence to those requirements is a precondition to give effect

to that doctrine. On the other hand, if the requirements are procedural or directory in that they are not of the “essence” of the thing to be done but are given with a view to the orderly conduct of business, they may be fulfilled by substantial, if not strict compliance. In other words, a mere attempted compliance may not be sufficient, but actual compliance with those factors which are considered as essential.”

40.After considering the various authorities, some of which are adverted to above, we are compelled to observe how true it is to say that there exists unsatisfactory state of law in relation to interpretation of exemption clauses. Various Benches which decided the question of interpretation of taxing statute on one hand and exemption notification on the other, have broadly assumed (we are justified to say this) that the position is well settled in the interpretation of a taxing statute: It is the law that any ambiguity in a taxing statute should enure to the benefit of the subject/assessee, but any

ambiguity in the exemption clause of exemption notification must be conferred in favour of revenue – and such exemption should be allowed to be availed only to those subjects/assesses who demonstrate that a case for exemption squarely falls within the parameters enumerated in the notification and that the claimants satisfy all the conditions precedent for availing exemption. Presumably for this reason the Bench which decided **Surendra Cotton Oil Mills Case** (supra) observed that there exists unsatisfactory state of law and the Bench which referred the matter initially, seriously doubted the conclusion in **Sun Export Case** (supra) that the ambiguity in an exemption notification should be interpreted in favour of the assessee.

41.After thoroughly examining the various precedents some of which were cited before us and after giving our anxious consideration, we would be more than justified

to conclude and also compelled to hold that every taxing statute including, charging, computation and exemption clause (at the threshold stage) should be interpreted strictly. Further, in case of ambiguity in a charging provisions, the benefit must necessarily go in favour of subject/assessee, but the same is not true for an exemption notification wherein the benefit of ambiguity must be strictly interpreted in favour of the Revenue/State.

42.In ***Govind Saran Ganga Saran v. Commissioner of Sales Tax***, 1985 Supp (SCC) 205, this Court pointed out three components of a taxing statute, namely subject of the tax; person liable to pay tax; and the rate at which the tax is to be levied. If there is any ambiguity in understanding any of the components, no tax can be levied till the ambiguity or defect is removed by the legislature [See ***Mathuram Agrawal v. Sate of***

Madhya Pradesh, (1999) 8 SCC 667; ***Indian Banks' Association vs. Devkala Consultancy Service***, (2004) 4 JT 587 = AIR 2004 SC 2615; and ***Consumer Online Foundation vs. Union of India***, (2011) 5 SCC 360.]

43. There is abundant jurisprudential justification for this.

In the governance of rule of law by a written Constitution, there is no implied power of taxation. The tax power must be specifically conferred and it should be strictly in accordance with the power so endowed by the Constitution itself. It is for this reason that the Courts insist upon strict compliance before a State demands and extracts money from its citizens towards various taxes. Any ambiguity in a taxation provision, therefore, is interpreted in favour of the subject/assessee. The statement of law that ambiguity in a taxation statute should be interpreted strictly and in the event of ambiguity the benefit should go to the

subject/assessee may warrant visualizing different situations. For instance, if there is ambiguity in the subject of tax, that is to say, who are the persons or things liable to pay tax, and whether the revenue has established conditions before raising and justifying a demand. Similar is the case in roping all persons within the tax net, in which event the State is to prove the liability of the persons, as may arise within the strict language of the law. There cannot be any implied concept either in identifying the subject of the tax or person liable to pay tax. That is why it is often said that subject is not to be taxed, unless the words of the statute unambiguously impose a tax on him, that one has to look merely at the words clearly stated and that there is no room for any intendment nor presumption as to tax. It is only the letter of the law and not the spirit of the law to guide the interpreter to decide the liability to tax ignoring any amount of hardship and eschewing

equity in taxation. Thus, we may emphatically reiterate that if in the event of ambiguity in a taxation liability statute, the benefit should go to the subject/assessee. But, in a situation where the tax exemption has to be interpreted, the benefit of doubt should go in favour of the revenue, the aforesaid conclusions are expounded only as a prelude to better understand jurisprudential basis for our conclusion. We may now consider the decisions which support our view.

44. In ***Hansraj Gordhandas Case*** (supra), the Constitutional Bench unanimously pointed out that an exemption from taxation is to be allowed based wholly by the language of the notification and exemption cannot be gathered by necessary implication or by construction of words; in other words, one has to look to the language alone and the object and purpose for granting exemption is irrelevant and immaterial.

45. In *Parle Exports Case* (supra), a bench of two Judges of this Court considered the question whether non-alcoholic beverage base like Gold spot base, Limca base and Thumps Up base, were exempted from payment of duty under the Central Government notification of March, 1975. While considering the issue, this Court pointed out the Strict interpretation to be followed in interpretation of a notification for exemption. These observations are made in para 17 of the judgment, which read as follows:

“How then should the courts proceed?
The expressions in the Schedule and in the notification for exemption should be understood by the language employed therein bearing in mind the context in which the expressions occur. The words used in the provision, imposing taxes or granting exemption should be understood in the same way in which these are understood in ordinary parlance in the area in which the law is in force or by the people who

ordinarily deal with them. It is, however, necessary to bear in mind certain principles. The notification in this case was issued under Rule 8 of the Central Excise Rules and should be read along with the Act. The notification must be read as a whole in the context of the other relevant provisions. When a notification is issued in accordance with power conferred by the statute, it has statutory force and validity and, therefore, the exemption under the notification is as if it were contained in the Act itself. See in this connection the observations of this Court in *Orient Weaving Mills (P) Ltd. v. Union of India*, 1962 Supp 3 SCR 481 = AIR 1963 SC 98. See also *Kailash Nath v. State of U.P.*, AIR 1957 SC 790. The principle is well settled that when two views of a notification are possible, it should be construed in favour of the subject as notification is part of a fiscal enactment. But in this connection, it is well to remember the observations of the Judicial Committee in *Coroline M. Armytage v. Frederick Wilkinson*, (1878) 3 AC 355, that it is only, however, in the event of there being a real difficulty in ascertaining the meaning of a particular enactment that the question

of strictness or of liberality of construction arises. The Judicial Committee reiterated in the said decision at page 369 of the report that in a taxing Act provisions enacting an exception to the general rule of taxation are to be construed strictly against those who invoke its benefit. While interpreting an exemption clause, liberal interpretation should be imparted to the language thereof, provided no violence is done to the language employed. It must, however, be borne in mind that absurd results of construction should be avoided.”

In the above passage, no doubt this Court observed that *“when two views of a notification are possible, it should be construed in favour of the subject as notification is part of fiscal document”*. This observation may appear to support the view that ambiguity in a notification for exemption must be interpreted to benefit the subject/assessee. A careful reading of the entire para, as extracted hereinabove would, however, suggest that an

exception to the general rule of tax has to be construed strictly against those who invoke for their benefit. This was explained in a subsequent decision in **Wood Papers Ltd. Case** (supra). In para 6, it was observed as follows:

“... In Collector of Central Excise v. Parle Exports (P) Ltd., (1989) 1 SCC 345, this Court while accepting that exemption clause should be construed liberally applied rigorous test for determining if expensive items like Gold Spot base or Limca base of Thums Up base were covered in the expression food products and food preparations used in Item No. 68 of First Schedule of Central Excises and Salt Act and held ‘that it should not be in consonance with spirit and the reason of law to give exemption for non-alcoholic beverage basis under the notification in question’. Rationale or ratio is same. Do not extend or widen the ambit at stage of applicability. But once that hurdle is crossed construe it liberally. Since the respondent did not fall in the first clause of

the notification there was no question of giving the clause a liberal construction and hold that production of goods by respondent mentioned in the notification were entitled to benefit.”

46. The above decision, which is also a decision of two-Judge Bench of this Court, for the first time took a view that liberal and strict construction of exemption provisions are to be invoked at different stages of interpreting it. The question whether a subject falls in the notification or in the exemption clause, has to be strictly construed. When once the ambiguity or doubt is resolved by interpreting the applicability of exemption clause strictly, the Court may construe the notification by giving full play bestowing wider and liberal construction. The ratio of ***Parle Exports Case*** (supra) deduced as follows:

“Do not extend or widen the ambit at stage of applicability. But once that hurdle is crossed, construe it liberally”.

47. We do not find any strong and compelling reasons to differ, taking a *contra* view, from this. We respectfully record our concurrence to this view which has been subsequently, elaborated by the Constitution Bench in ***Hari Chand Case*** (supra).

48. The next authority, which needs to be referred is the case in ***Mangalore Chemicals*** (supra). As we have already made reference to the same earlier, repetition of the same is not necessary. From the above decisions, the following position of law would, therefore, clear. Exemptions from taxation have tendency to increase the burden on the other unexempted class of tax payers. A person claiming exemption, therefore, has to establish that his case squarely falls within the exemption notification, and while doing so, a notification should be construed against the subject in case of ambiguity.

49. The ratio in ***Mangalore Chemicals Case*** (supra) was approved by a three-Judge Bench in ***Novopan India Ltd. v. Collector of Central Excise and Customs***, 1994 Supp (3) SCC 606. In this case, probably for the first time, the question was posed as to whether the benefit of an exemption notification should go to the subject/assessee when there is ambiguity. The three-Judge Bench, in the background of English and Indian cases, in para 16, unanimously held as follows:

“We are, however, of the opinion that, on principle, the decision of this Court in *Mangalore Chemicals* – and in *Union of India v. Wood Papers*, referred to therein – represents the correct view of law. The principle that in case of ambiguity, a taxing statute should be construed in favour of the assessee – assuming that the said principle is good and sound – does not apply to the construction of an exception or an exempting provision, they have to be construed strictly. A person invoking an exception or an exemption provision to

relieve him of the tax liability must establish clearly that he is covered by the said provision. In case of doubt or ambiguity, benefit of it must go to the State....”

50. In *Tata Iron & Steel Co. Ltd. v. State of Jharkhand*,

(2005) 4 SCC 272, which is another two-Judge Bench decision, this Court laid down that eligibility clause in relation to exemption notification must be given strict meaning and in para 44, it was further held –

“The principle that in the event a provision of fiscal statute is obscure such construction which favours the assessee may be adopted, would have no application to construction of an exemption notification, as in such a case it is for the assessee to show that he comes within the purview of exemption (See *Novopan India Ltd v. CCE and Customs*).”

51. In *Hari Chand Case* (supra), as already discussed, the

question was whether a person claiming exemption is required to comply with the procedure strictly to avail

the benefit. The question posed and decided was indeed different. The said decision, which we have already discussed *supra*, however, indicates that while construing an exemption notification, the Court has to distinguish the conditions which require strict compliance, the non-compliance of which would render the assessee ineligible to claim exemption and those which require substantial compliance to be entitled for exemption. We are pointing out this aspect to dispel any doubt about the legal position as explored in this decision. As already concluded in para 50 above, we may reiterate that we are only concerned in this case with a situation where there is ambiguity in an exemption notification or exemption clause, in which event the benefit of such ambiguity cannot be extended to the subject/assessee by applying the principle that an obscure and/or ambiguity or doubtful fiscal statute must receive a construction favouring the assessee.

Both the situations are different and while considering an exemption notification, the distinction cannot be ignored.

52. To sum up, we answer the reference holding as under -

(1) Exemption notification should be interpreted strictly; the burden of proving applicability would be on the assessee to show that his case comes within the parameters of the exemption clause or exemption notification.

(2) When there is ambiguity in exemption notification which is subject to strict interpretation, the benefit of such ambiguity cannot be claimed by the subject/assessee and it must be interpreted in favour of the revenue.

(3) The ratio in **Sun Export case** (supra) is not correct and all the decisions which took similar view as in **Sun Export Case** (supra) stands over-ruled.

53. The instant civil appeal may now be placed before appropriate Bench for considering the case on merits

after obtaining orders from the Hon'ble Chief Justice of India.

.....J.
(**Ranjan Gogoi**)

.....J.
(**N.V. Ramana**)

.....J.
(**R. Banumathi**)

.....J.
(**Mohan M. Shantanagoudar**)

.....J.
(**S. Abdul Nazeer**)

New Delhi
July 30, 2018

VELLORE CITIZENS' WELFARE FORUM v UNION OF INDIA

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(BEFORE KULDIP SINGH, FAIZAN UDDIN AND K. VENKATASWAMI, JJ.)

a VELLORE CITIZENS' WELFARE FORUM .. Petitioner;
Versus
UNION OF INDIA AND OTHERS .. Respondents.

Writ Petition (C) No. 914 of 1991†, decided on August 28, 1996

b **A. Constitution of India — Arts. 32, 21, 47, 48-B, 51-A(g) — Environmental pollution by tannery industries — While the industries are vital for country's development, but having regard to pollution caused by them, principle of Sustainable Development has to be adopted as a balancing concept — Precautionary Principle and Polluter Pays Principle acceptable as part of the law of the country and should be implemented — Precautionary environmental measures should be taken by State Govt. and statutory authorities and lack of scientific certainty cannot be a ground for postponing such measures where**
c **there are serious threats to ecology — Onus on polluter industries to prove that their actions were environmentally benign — Polluter industries liable to pay compensation to individuals affected as well as to make good the ecological damage — Discharge of untreated effluent by tanneries in State of T.N. rendering river water unfit for human consumption, contaminating the subsoil water and spoiling the physico-chemical properties of the soil making it unfit for agricultural purposes — Held, such industries cannot be permitted to continue**
d **their operation unless they set up pollution control devices — Such industries liable to compensate for the past pollution generated by them — Pollution fine of Rs 10,000 imposed on each tannery — Amount to be deposited in Environment Protection Fund which shall be utilised for compensating the affected persons and restoring the ecological balance — Environment (Protection) Act, 1986 — Ecology — Damage to — Compensation**

e **B. Ecology — Environment (Protection) Act, 1986 — S. 3(3) — Authority under — Directed to be constituted by Central Govt. before 30-9-1996 — Authority to be headed by a retired High Court Judge — Authority to have all powers necessary to deal with the situation created by the polluting industries — Authority also to implement the Precautionary Principle and the principle of Polluter Pays — Authority to compute compensation payable by the polluting industries to individuals affected and that payable for restoring the damage it caused to the environment — Authority also to frame a scheme in consultation**
f **with expert bodies like NEERI, Central Board and State Board for reversing the ecological damage and environmental pollution**

g **C. Constitution of India — Arts. 32, 226 & 21 — PIL — Ecology — Green Bench — Environmental pollution caused by tanneries in State of T.N. — Suitable directions issued by Supreme Court — However, instead of itself monitoring the matter any further Madras High Court advised to constitute a Green Bench to deal with all the environmental matters — Such Green Benches already functioning in some other High Courts**

D. International Law — Customary international law — If not contrary to the municipal law, deemed to be incorporated in domestic law

E. Judicial activism — Inaction on the part of the Govt. to set up regulatory/adjudicatory statutory authorities as directed by the Act makes it imperative for the Court to pass suitable necessary directions

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† Under Article 32 of the Constitution of India

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Held :

Though the leather industry is of vital importance to the country as it generates foreign exchange and provides employment avenues it has no right to destroy the ecology, degrade the environment and pose as a health-hazard. It cannot be permitted to expand or even to continue with the present production unless it tackles by itself the problem of pollution created by the said industry. (Para 9)

The traditional concept that development and ecology are opposed to each other is no longer acceptable. "Sustainable Development" is the answer. In the international sphere, "Sustainable Development" has come to be accepted as a viable concept to eradicate poverty and improve the quality of human life while living within the carrying capacity of the supporting ecosystems. "Sustainable Development" as defined by the Brundtland Report means "Development that meets the needs of the present without compromising the ability of the future generations to meet their own needs". "Sustainable Development" as a balancing concept between ecology and development has been accepted as a part of the customary international law though its salient features have yet to be finalised by the international law jurists. (Para 10)

"The Precautionary Principle" and "the Polluter Pays Principle" are essential features of "Sustainable Development". The "Precautionary Principle" — in the context of the municipal law — means:

(i) Environmental measures — by the State Government and the statutory authorities — must anticipate, prevent and attack the causes of environmental degradation.

(ii) Where there are threats of serious and irreversible damage, lack of scientific certainty should not be used as a reason for postponing measures to prevent environmental degradation.

(iii) The "onus of proof" is on the actor or the developer/industrialist to show that his action is environmentally benign.

"The Polluter Pays Principle" has been held to be a sound principle. The "Polluter Pays Principle" as interpreted by the Supreme Court means that the absolute liability for harm to the environment extends not only to compensate the victims of pollution but also the cost of restoring the environmental degradation. Remediation of the damaged environment is part of the process of "Sustainable Development" and as such the polluter is liable to pay the cost to the individual sufferers as well as the cost of reversing the damaged ecology. Apart from the constitutional mandate to protect and improve the environment there are plenty of post-independence legislations on the subject. In view of the constitutional and statutory provisions it must be held that the Precautionary Principle and the Polluter Pays Principle are part of the environmental law of the country. (Paras 11 to 14)

Indian Council for Enviro-Legal Action v. Union of India, (1996) 3 SCC 212 : JT (1996) 2 SC 196, *relied on*

Even otherwise, once these principles are accepted as part of the customary international law there would be no difficulty in accepting them as part of the domestic law. The rules of customary international law which are not contrary to the municipal law shall be deemed to have been incorporated in the domestic law and shall be followed by the courts of law. (Para 15)

A.D.M. v. Shivakant Shukla, (1976) 2 SCC 521 : AIR 1976 SC 1207; *Jolly George Varghese v. Bank of Cochin*, (1980) 2 SCC 360 : AIR 1980 SC 470; *Gramophone Co. of India Ltd. v. Birendra Bahadur Pandey*, (1984) 2 SCC 534 : 1984 SCC (Cri) 313 : AIR 1984 SC 667, *relied on*

The constitutional and statutory provisions protect a person's right to fresh air, clean water and pollution-free environment, but the source of the right is the

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inalienable common law right of clean environment. Our legal system having been founded on the British common law the right of a person to a pollution-free environment is a part of the basic jurisprudence of the land. (Paras 16 and 17)

- a *Commentaries on the Laws of England of Sir William Blackstone* Vol. III, Fourth Edn. published in 1876. Chapter XIII, relied on

The Environment Act contains useful provisions for controlling pollution. The main purpose of the Act is to create an authority or authorities under Section 3(3) of the Act with adequate powers to control pollution and protect the environment. It is a pity that till date no authority has been constituted by the Central Government. The

- b work which is required to be done by an authority in terms of Section 3(3) read with other provisions of the Act is being done by the Supreme Court and the other courts in the country. It is high time that the Central Government realises its responsibility and statutory duty to protect the degrading environment in the country. If the conditions in the five districts of Tamil Nadu, where tanneries are operating, are permitted to continue then in the near future all rivers/canals shall be polluted, underground waters contaminated, agricultural lands turned barren and the residents of the area exposed to serious diseases. It is, therefore, necessary for the Supreme Court to direct the Central Government to take immediate action under the provisions of the Environment Act. (Para 20)

There are more than 900 tanneries operating in the five districts of Tamil Nadu. Some of them may, by now, have installed the necessary pollution control measures; they have been polluting the environment for over a decade and in some cases even for a longer period. The Supreme Court has in various orders indicated that these tanneries are liable to pay pollution fine. The polluters must compensate the affected persons and also pay the cost of restoring the damaged ecology. (Para 21)

- c The Board has the power under the Environment Act and the Rules to lay down standards for emissions or discharge of environmental pollutants. Rule 3(2) of the Rules even permits the Board to specify more stringent standards from those provided under the Rules. The NEERI having justified the standards stipulated by the Board, it is directed that these standards are to be maintained by the tanneries and other industries in the State of Tamil Nadu. (Para 24)

[Keeping in view the above position the Supreme Court gave specific directions in para 25.]

However, it is not necessary for the Supreme Court to monitor these matters any further. The Madras High Court would be in a better position to monitor these matters hereinafter. Therefore, the Chief Justice of the Madras High Court is directed to constitute a Special Bench — “Green Bench” — to deal with this case and other environmental matters. However, it would be open to the Bench to pass any appropriate order/orders keeping in view the directions issued by “Green Benches” already functioning in Calcutta, Madhya Pradesh and some other High Courts. (Para 26)

R-M/T/16616/C

- g Advocates who appeared in this case :

R. Mohan, V.A. Bobde, Kapil Sibal, M.R. Sharma, V.C. Mahajan and S.S. Ray, Senior Advocates (K.R.R. Pillai, M.C. Mehta, Ms Seema Midha, V.G. Pragasam, Vijay Panjwani, S. Sukumaran, Sudhir Walia, A.T.M. Sampath, M.S. Dahiya, Sudhir Walia, Roy Abraham, Sm. Baby Krishna, P. Sukumar, Praveen Kumar, Romesh C. Pathak, M.A. Krishnamoorthy, V. Krishnamurthi, Ms Anil Katiyar, Ms Indra Sawhney, Deepak Divan, S.M. Jadhav, A.V. Rangam, Zafarullah Khan, Shahid Rizvi, Shakil Ahmed Syed, Jaideep Gupta and Sanjay Hegde, Advocates, with them) for the appearing parties.

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Chronological list of cases cited

on page(s)

1. (1996) 3 SCC 212 : JT (1996) 2 SC 196, *Indian Council for Enviro-Legal Action v. Union of India* 658g-h a
2. (1984) 2 SCC 534 : 1984 SCC (Cr) 313 : AIR 1984 SC 667, *Gramophone Co. of India Ltd. v. Birendra Bahadur Pandey* 660e
3. (1980) 2 SCC 360 : AIR 1980 SC 470, *Jolly George Varghese v. Bank of Cochin* 660d-e
4. (1976) 2 SCC 521 : AIR 1976 SC 1207, *A.D.M. v. Shivakant Shukla* 660d-e

The Judgment of the Court was delivered by

KULDIP SINGH, J.— This petition — public interest — under Article 32 of the Constitution of India has been filed by Vellore Citizens' Welfare Forum and is directed against the pollution which is being caused by enormous discharge of untreated effluent by the tanneries and other industries in the State of Tamil Nadu. It is stated that the tanneries are discharging untreated effluent into agricultural fields, roadsides, waterways and open lands. The untreated effluent is finally discharged in River Palar which is the main source of water supply to the residents of the area. According to the petitioner the entire surface and subsoil water of River Palar has been polluted resulting in non-availability of potable water to the residents of the area. It is stated that the tanneries in the State of Tamil Nadu have caused environmental degradation in the area. According to the preliminary survey made by the Tamil Nadu Agricultural University Research Centre, Vellore nearly 35,000 hectares of agricultural land in the tanneries belt has become either partially or totally unfit for cultivation. It has been further stated in the petition that the tanneries use about 170 types of chemicals in the chrome tanning processes. The said chemicals include sodium chloride, lime, sodium sulphate, chlorium (*sic*) sulphate, fat, liquor, ammonia and sulphuric acid besides dyes which are used in large quantities. Nearly 35 litres of water is used for processing one kilogram of finished leather, resulting in dangerously enormous quantities of toxic effluents being let out in the open by the tanning industry. These effluents have spoiled the physico-chemical properties of the soil and have contaminated groundwater by percolation. According to the petitioner an independent survey conducted by Peace Members, a non-governmental organisation, covering 13 villages of Dindigul and Peddiar Chatram Anchayat Unions, reveals that 350 wells out of total of 467 used for drinking and irrigation purposes have been polluted. Women and children have to walk miles to get drinking water. Legal Aid and Advice Board of Tamil Nadu requested two lawyers namely, M.R. Ramanan and P.S. Subramaniam to visit the area and submit a report indicating the extent of pollution caused by the tanneries. Relevant part of the report is as under:

“As per the Technical Report dated 28-5-1983 of the hydrological investigations carried out in Solor village near Ambur it was noticed that 176 chemicals including acids were contained in the tannery effluents. If 40 litres of water with chemicals are required for one kilo of leather, with the production of 200 tons of leather per day at present and likely to

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a be increased multifold in the next four to five years with the springing up of more tanneries like mushroom in and around Ambur town, the magnitude of the effluent water used with chemicals and acids let out daily can be shockingly imagined. ... The effluents are let out from the tanneries in the nearby lands, then to Goodar and Palar rivers. The lands, the rivulet and the river receive the effluents containing toxic chemicals and acids. The subsoil water is polluted ultimately affecting not only arable lands, wells used for agriculture but also drinking-water wells.

b The entire Ambur town and the villages situated nearby do not have good drinking water. Some of the influential and rich people are able to get drinking water from a far-off place connected by a few pipes. During rainy days and floods, the chemicals deposited into the rivers and lands spread out quickly to other lands. The effluents thus let out affect cultivation; either crops do not come up at all or if produced the yield is reduced abnormally too low. ... The tanners have come to stay. The industry is a foreign exchange earner. But one moot point is whether at the cost of the lives of lakhs of people with increasing human population the activities of the tanneries should be encouraged on monetary considerations. We find that the tanners have absolutely no regard for the healthy environment in and around their tanneries. The effluents

c discharged have been stored like a pond openly in most of the places adjacent to cultivable lands with easy access for the animals and the people. The Ambur Municipality, which can exercise its powers as per the provisions of the Madras District Municipalities Act, 1920 (5 of 1920) more particularly under Sections 226 to 231, 249 to 253 and 338 to 342 seems to be a silent spectator. Probably it does not want to antagonise the highly influential and stupendously rich tanners. The powers given under Section 63 of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974) have not been exercised in the case of tanneries in Ambur and the surrounding areas."

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2. Along with the affidavit dated 21-7-1992 filed by Deputy Secretary to Government, Environment and Forests Department of Tamil Nadu, a list of villages affected by the tanneries has been attached. The list mentions 59 villages in the three divisions of Thirupathur, Vellore and Ranipet. There is acute shortage of drinking water in these 59 villages and as such alternative arrangements were being made by the Government for the supply of drinking water.

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3. In the affidavit dated 9-1-1992 filed by Member Secretary, Tamil Nadu Pollution Control Board (the Board), it has been stated as under:

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"It is submitted that there are 584 tanneries in North Arcot Ambedkar District vide Annexures 'A' and 'D', out of which 443 tanneries have applied for consent of the Board. The Government were concerned with the treatment and disposal of effluent from tanneries. The Government gave time up to 31-7-1985 to tanneries to put up Effluent Treatment Plant (ETP). So far 33 tanneries in North Arcot

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Ambedkar District have put up Effluent Treatment Plants. The Board has stipulated standards for the effluent to be disposed of by the tanneries.”

4. The affidavits filed on behalf of the State of Tamil Nadu and the Board clearly indicate that the tanneries and other polluting industries in the State of Tamil Nadu are being persuaded for the last about 10 years to control the pollution generated by them. They were given option either to construct common effluent treatment plants for a cluster of industries or to set up individual pollution control devices. The Central Government agreed to give substantial subsidy for the construction of Common Effluent Treatment Plants (CETPs). It is a pity that till date most of the tanneries operating in the State of Tamil Nadu have not taken any step to control the pollution caused by the discharge of effluent. This Court on 1-5-1995 passed a detailed order. In the said order this Court noticed various earlier orders passed by this Court and finally directed as under:

“Mr R. Mohan, the learned Senior Counsel for the Tamil Nadu Pollution Control Board, has placed before us a consolidated statement dividing the 553 industries into three parts. The first part in Statement 1 and the second part in Statement 2 relate to those tanneries who have set up the Effluent Treatment Plants either individually or collectively to the satisfaction of the Tamil Nadu Pollution Control Board. According to the report placed on the record by the Board, these industries in Statements 1 and 2 have not achieved the standard or have not started functioning to the satisfaction of the Board. So far as the industries in Statements 1 and 2 are concerned, we give them three months’ notice from today to complete the setting up of Effluent Treatment Plant (either individually or collectively) failing which they shall be liable to pollution fine on the basis of their past working and also liable to be closed. We direct the Tamil Nadu Pollution Control Board to issue individual notices to all these industries within two weeks from today. The Board is also directed to issue a general notice on three consecutive days in a local newspaper which has circulation in the district concerned.

So far as the 57 tanneries listed in Statement III (including 12 industries who have filed writ petition, numbers of which have been given above) are concerned, these units have not installed and commissioned the Effluent Treatment Plants despite various orders issued by this Court from time to time. Mr R. Mohan, the learned Senior Counsel appearing for Tamil Nadu Pollution Control Board, states that the Board has issued separate notices to these units directing them to set up the Effluent Treatment Plants. Keeping in view the fact that this Court has been monitoring the matter for the last about four years and various orders have been issued by this Court from time to time, there is no justification to grant any further time to these industries. We, therefore, direct the 57 industries listed hereunder to be closed with immediate effect. ... We direct the District Collector and the Senior Superintendent of Police of the district to have our orders complied with

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immediately. Both these officers shall file a report in this Court within one week of the receipt of the order.

a We give opportunity to these 57 industries to approach this Court as and when any steps towards the setting up of Effluent Treatment Plants and their commissioning have been taken by these industries. If any of the industries wish to be relocated to some other area, they may come out with a proposal in that respect."

b 5. On 28-7-1995 this Court suspended the closure order in respect of seven industries mentioned therein for a period of eight weeks. It was further observed as under:

c "Mr G. Ramaswamy, the learned Senior Advocate appearing for some of the tanneries in Madras, states that the setting up of the Effluent Treatment Plants is progressing satisfactorily. According to him several lakhs have already been spent and in a short time it would start operating. Mr Mohan, the learned counsel for the Tamil Nadu Pollution Control Board, states that the team of the Board will inspect the project and file a report by 3-8-1995."

6. This Court on 8-9-1995 passed the following order:

d "The Tamil Nadu Pollution Control Board has filed its report. List No. I relates to about 299 industries. It is stated by Mr G. Ramaswamy, Mr Kapil Sibal and Mr G.L. Sanghi, the learned Senior Advocates appearing for these industries, that the setting up of the projects is in progress. According to the learned counsel Tamil Nadu Leather Development Corporation (TALCO) is in charge of the project. The learned counsel state that the project shall be completed in every respect within 3 months from today. The details of these industries and the projects undertaken by TALCO as per List No. I are as under. ... We are of the view that it would be in the interest of justice to give a little more time to these industries to complete the project. Although the industries have asked for three months' time, we give them time till 31-12-1995. We make it clear that in case the projects are not completed by that time, the industries shall be liable to be closed forthwith. Apart from that, these industries shall also be liable to pollution fine for the past period during which they had been operating.

We also take this opportunity to direct TALCO to take full interest in these projects and have the projects completed within the time granted by us.

g Mr Kapil Sibal, the learned counsel appearing for the tanneries, stated that Council for Indian Finished Leather Manufacturers' Export Association is a body which is collecting 5 per cent on all exports. This body also helps the tanneries in various respects. We issue notice to the Association to be present in this Court and assist this Court in all the matters pertaining to the leather tanneries in Madras. Mr Sampath takes notice.

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So far as List No. II is concerned, it relates to about 163 tanneries (except M/s Vibgyor Tanners & Co., Kailasagiri Road, Mittalam-635 811, Ambur (via). The Pollution Control Board has inspected all these tanneries and placed its report before us. According to the report most of these tanneries have not even started primary work at the spot. Some of them have not even located the land. The tanneries should have themselves set up the pollution control devices right at the time when they started working. They have not done so. They are not even listening to various orders passed by this Court from time to time during the last more than 2 years. It is on the record that these tanneries are polluting the area. Even the water around the area where they are operating is not worth drinking. We give no further time to these tanneries. We direct all the following tanneries which are numbering about 162 to be closed with immediate effect.”

It may be mentioned that this Court suspended the closure orders in respect of various industries from time to time to enable the said industries to install the pollution control devices.

7. This Court by the order dated 20-10-1995 directed the National Environmental Engineering Research Institute, Nagpur (NEERI) to send a team of experts to examine, in particular, the feasibility of setting up of CETPs for cluster of tanneries situated at different places in the State of Tamil Nadu where the work of setting up of the CETPs has not started and also to inspect the existing CETPs including those where construction work was in progress. NEERI submitted its first report on 9-12-1995 and the second report on 12-2-1996. This Court examined the two reports and passed the following order on 9-4-1996:

“Pursuant to this Court’s order dated December 15, 1995, NEERI has submitted Final Examination Report dated February 12, 1996 regarding CETPs constructed/under construction by the tanneries in various districts of the State of Tamil Nadu. A four-member team constituted by the Director, NEERI inspected the CETPs from January 27, 1996 to February 12, 1996. According to the report, at present, 30 CETP sites have been identified for tannery clusters in the five districts of Tamil Nadu viz., North Arcot Ambedkar, Erode Periyar, Dindigul Anna, Trichi and Chengai M.G.R. All the 30 CETPs were inspected by the team. According to the report, only 7 CETPs are under operation, while 10 are under construction and 13 are proposed. The following 7 CETPs are under operation:

1. M/s TALCO Ranipet Tannery Effluent Treatment Co. Ltd., Ranipet, District North Arcot Ambedkar.

2. M/s TALCO Ambur Tannery Effluent Treatment Co. Ltd., Thuthipet Sector, Ambur, District North Arcot Ambedkar.

3. M/s TALCO Vaniyambadi Tanners Enviro Control Systems Ltd., Vaniyambattu, Vaniyambadi, District North Arcot.

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4. M/s Pallavaram Tanners Industrial Effluent Treatment Co., Chrompet Area, District Chengai MGR.

a 5. M/s Ranipet SIDCO Finished Leather Effluent Treatment Co. Pvt. Ltd., Ranipet, District North Arcot Ambedkar.

6. M/s TALCO Vaniyambadi Tanners Enviro Control Systems Ltd., Udayendiram, Vaniyambadi, District North Arcot Ambedkar.

b 7. M/s TALCO Pernambut Tannery Effluent Treatment Co. Ltd., Bakkalapalli, Pernambut, District North Arcot Ambedkar.

c The CETPs mentioned at Sl. Nos. 5, 6 and 7 were commissioned in January 1996 and were on the date of report passing through stabilization period. The report indicates that so far as the above CETPs are concerned, although there is improvement in the performance, they are still not operating at their optimal level and are not meeting the standards as laid down by the Ministry of Environment and Forests and the Tamil Nadu Pollution Control Board for inland surface water discharge. The NEERI has given various recommendations to be followed by the above-mentioned units. We direct the units to comply with the recommendations of NEERI within two months from today. The Tamil Nadu Pollution Control Board shall monitor the directions and have the recommendations of the NEERI complied with. So far as the three units which are under stabilization are concerned, the NEERI Team may inspect the same and place a final report before this Court within the period of two months.

e Apart from the tanneries which are connected with the above-mentioned 7 units, there are large number of other tanneries operating in the 5 districts mentioned above which have not set up any satisfactory pollution control devices. Mr Mohan, the learned counsel for the Tamil Nadu Pollution Control Board, states that notices were issued to all those tanneries from time to time directing them to set up the necessary pollution control devices. It is mandatory for the tanneries to set up the pollution control devices. Despite notices it has not been done. This Court has been monitoring these matters for the last about 4 years. There is no awakening or realisation to control the pollution which is being generated by these tanneries.

f The NEERI has indicated the physico-chemical characteristics of groundwater from dug wells near tannery clusters. According to the report, water samples show that well waters around the tanneries are unfit for drinking. The report also shows that the quality of water in Palar river downstream from the place where effluent is discharged is highly polluted. We, therefore, direct that all the tanneries in the districts of North Arcot Ambedkar, Erode Periyar, Dindigul Anna, Trichi and Chengai M.G.R. which are not connected with the seven CETPs mentioned above, shall be closed with immediate effect. None of these tanneries shall be permitted to operate till the time the CETPs are constructed to the satisfaction of the Tamil Nadu Pollution Control

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Board. We direct the District Magistrate and the Superintendent of Police of the area concerned, to have all these tanneries closed with immediate effect. Mr Mehta has placed on record the report of Tamil Nadu Pollution Control Board. In Statement I of the Index, there is a list of 30 industries which have also not been connected with any CETPs. According to the report, these industries have not, till date set up pollution control devices. We direct the closure of these industries also. List is as under. ... The Tamil Nadu Pollution Control Board has filed another report dated January 18, 1996 pertaining to 51 tanneries. There is dispute regarding the permissible limit of the quantity of total dissolved solids (TDS). Since the NEERI Team is visiting these tanneries, they may examine the TDS aspect also and advise this Court accordingly. Meanwhile, we do not propose to close any of the tanneries on the ground that it is discharging more than 2001 TDS.

The report indicates that except the 17 units, all other units are non-complaint units in the sense that they are not complying with the BOD standards. Excepting these 17 industries, the remaining 34 tanneries listed hereunder are directed to be closed forthwith. ... We direct the District Magistrate and the Superintendent of Police of the area concerned to have all these industries mentioned above closed forthwith. The tanneries in the 5 districts of Tamil Nadu referred to in this order have been operating for a long time. Some of the tanneries are operating for a period of more than two decades. All this period, these tanneries have been polluting the area. Needless to say that the total environment in the area has been polluted. We issue show-cause notice to these industries through their learned counsel who are present in Court, why they be not subjected to heavy pollution fine. We direct the State of Tamil Nadu through the Industry Ministry, the Tamil Nadu Pollution Control Board and all other authorities concerned and also the Government of India through the Ministry of Environment and Forests, not to permit the setting up of further tanneries in the State of Tamil Nadu.

Copy of this order be communicated to the authorities concerned within three days. To come up for further consideration after the replies to the show-cause. There are a large number of tanneries in the State of Tamil Nadu which have set up individual pollution control devices and which according to the Tamil Nadu Pollution Control Board are operating satisfactorily. The fact, however, remains that all these tanneries are discharging the treated effluents within the factory precincts itself. We direct NEERI Team which is visiting this area to find out as to whether the discharge of the effluent on the land within the factory premises is permissible environmentally. *M/s Nandeem Tanning Company, Valayampet Vaniyambadi* is one of such industries. Copy of the report submitted by the Tamil Nadu Pollution Control Board be forwarded to the NEERI. NEERI may inspect this industry within ten days and file a report in this Court. Copy of this order be communicated to NEERI.

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Matters regarding distilleries in the State of Tamil Nadu

- a** The Tamil Nadu Pollution Control Board has placed on record the factual report regarding 6 distilleries mentioned in page 4 of the Index of its Report dated April 5, 1996. The learned counsel for the Board states that the Board shall issue necessary notices to these industries to set up pollution control devices to the satisfaction of the Board, failing which these distilleries shall be closed. The Pollution Control Board shall place a status report before this Court."
- b** The NEERI submitted two further reports on 1-5-1996 and 11-6-1996 in respect of CETPs set up by various industries. The NEERI reports indicate that the physico-chemical characteristics of groundwater from dug wells in Ranipet, Thuthipeth, Valayambattu, Vaniyambadi and various other places do not conform to the limits prescribed for drinking purposes.
- 8.** This Court has been monitoring this petition for almost five years.
- c** The NEERI, Board and the Central Pollution Control Board (Central Board) have visited the tanning and other industries in the State of Tamil Nadu several times. These expert bodies have offered all possible assistance to these industries. The NEERI reports indicate that even the seven operational CETPs are not functioning to its satisfaction. NEERI has made several recommendations to be followed by the operational CETPs. Out of the 30
- d** CETP sites which have been identified for tannery clusters in the five districts of North Arcot Ambedkar, Erode Periyar, Dindigul Anna, Trichi and Chengai M.G.R., 7 are under operation, 10 are under construction and 13 are proposed. There are a large number of tanneries which are not likely to be connected with any CETP and are required to set up pollution control devices on their own. Despite repeated extensions granted by this Court
- e** during the last five years and prior to that by the Board the tanneries in the State of Tamil Nadu have miserably failed to control the pollution generated by them.
- 9.** It is no doubt correct that the leather industry in India has become a major foreign exchange earner and at present Tamil Nadu is the leading exporter of finished leather accounting for approximately 80 per cent of the
- f** country's export. Though the leather industry is of vital importance to the country as it generates foreign exchange and provides employment avenues it has no right to destroy the ecology, degrade the environment and pose as a health-hazard. It cannot be permitted to expand or even to continue with the present production unless it tackles by itself the problem of pollution created by the said industry.
- g** **10.** The traditional concept that development and ecology are opposed to each other is no longer acceptable. "Sustainable Development" is the answer. In the international sphere, "Sustainable Development" as a concept came to be known for the first time in the Stockholm Declaration of 1972. Thereafter, in 1987 the concept was given a definite shape by the World Commission on Environment and Development in its report called "Our
- h** Common Future". The Commission was chaired by the then Prime Minister of Norway, Ms G.H. Brundtland and as such the report is popularly known

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as “Brundtland Report”. In 1991 the World Conservation Union, United Nations Environment Programme and Worldwide Fund for Nature, jointly came out with a document called “Caring for the Earth” which is a strategy for sustainable living. Finally, came the Earth Summit held in June 1992 at Rio which saw the largest gathering of world leaders ever in the history — deliberating and chalking out a blueprint for the survival of the planet. Among the tangible achievements of the Rio Conference was the signing of two conventions, one on biological diversity and another on climate change. These conventions were signed by 153 nations. The delegates also approved by consensus three non-binding documents namely, a Statement on Forestry Principles, a declaration of principles on environmental policy and development initiatives and Agenda 21, a programme of action into the next century in areas like poverty, population and pollution. During the two decades from Stockholm to Rio “Sustainable Development” has come to be accepted as a viable concept to eradicate poverty and improve the quality of human life while living within the carrying capacity of the supporting ecosystems. “Sustainable Development” as defined by the Brundtland Report means “Development that meets the needs of the present without compromising the ability of the future generations to meet their own needs”. We have no hesitation in holding that “Sustainable Development” as a balancing concept between ecology and development has been accepted as a part of the customary international law though its salient features have yet to be finalised by the international law jurists.

11. Some of the salient principles of “Sustainable Development”, as culled out from Brundtland Report and other international documents, are Inter-Generational Equity, Use and Conservation of Natural Resources, Environmental Protection, the Precautionary Principle, Polluter Pays Principle, Obligation to Assist and Cooperate, Eradication of Poverty and Financial Assistance to the developing countries. We are, however, of the view that “The Precautionary Principle” and “The Polluter Pays Principle” are essential features of “Sustainable Development”. The “Precautionary Principle” — in the context of the municipal law — means:

(i) Environmental measures — by the State Government and the statutory authorities — must anticipate, prevent and attack the causes of environmental degradation.

(ii) Where there are threats of serious and irreversible damage, lack of scientific certainty should not be used as a reason for postponing measures to prevent environmental degradation.

(iii) The “onus of proof” is on the actor or the developer/industrialist to show that his action is environmentally benign.

12. “The Polluter Pays Principle” has been held to be a sound principle by this Court in *Indian Council for Enviro-Legal Action v. Union of India*¹. The Court observed: (SCC p. 246, para 65)

¹ (1996) 3 SCC 212 : JT (1996) 2 SC 196

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a "... we are of the opinion that any principle evolved in this behalf should be simple, practical and suited to the conditions obtaining in this country".

The Court ruled that: (SCC p. 246, para 65)

b "... once the activity carried on is hazardous or inherently dangerous, the person carrying on such activity is liable to make good the loss caused to any other person by his activity *irrespective* of the fact whether he took reasonable care while carrying on his activity. The rule is premised upon the very nature of the activity carried on".

c Consequently the polluting industries are "absolutely liable to compensate for the harm caused by them to villagers in the affected area, to the soil and to the underground water and hence, they are bound to take all necessary measures to remove sludge and other pollutants lying in the affected areas". The "Polluter Pays Principle" as interpreted by this Court means that the absolute liability for harm to the environment extends not only to compensate the victims of pollution but also the cost of restoring the environmental degradation. Remediation of the damaged environment is part of the process of "Sustainable Development" and as such the polluter is liable to pay the cost to the individual sufferers as well as the cost of reversing the damaged ecology.

d 13. The Precautionary Principle and the Polluter Pays Principle have been accepted as part of the law of the land. Article 21 of the Constitution of India guarantees protection of life and personal liberty. Articles 47, 48-A and 51-A(g) of the Constitution are as under:

e "47. *Duty of the State to raise the level of nutrition and the standard of living and to improve public health.*—The State shall regard the raising of the level of nutrition and the standard of living of its people and the improvement of public health as among its primary duties and, in particular, the State shall endeavour to bring about prohibition of the consumption except for medicinal purposes of intoxicating drinks and of drugs which are injurious to health.

f 48-A. *Protection and improvement of environment and safeguarding of forests and wildlife.*—The State shall endeavour to protect and improve the environment and to safeguard the forests and wildlife of the country.

g 51-A. (g) to protect and improve the natural environment including forests, lakes, rivers and wildlife, and to have compassion for living creatures."

h Apart from the constitutional mandate to protect and improve the environment there are plenty of post-independence legislations on the subject but more relevant enactments for our purpose are: the Water (Prevention and Control of Pollution) Act, 1974 (the Water Act), the Air (Prevention and Control of Pollution) Act, 1981 (the Air Act) and the Environment (Protection) Act, 1986 (the Environment Act). The Water Act provides for the constitution of the Central Pollution Control Board by the

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Central Government and the constitution of the State Pollution Control Boards by various State Governments in the country. The Boards function under the control of the Governments concerned. The Water Act prohibits the use of streams and wells for disposal of polluting matters. It also provides for restrictions on outlets and discharge of effluents without obtaining consent from the Board. Prosecution and penalties have been provided which include sentence of imprisonment. The Air Act provides that the Central Pollution Control Board and the State Pollution Control Boards constituted under the Water Act shall also perform the powers and functions under the Air Act. The main function of the Boards, under the Air Act, is to improve the quality of the air and to prevent, control and abate air pollution in the country. We shall deal with the Environment Act in the latter part of this judgment.

14. In view of the above-mentioned constitutional and statutory provisions we have no hesitation in holding that the Precautionary Principle and the Polluter Pays Principle are part of the environmental law of the country.

15. Even otherwise once these principles are accepted as part of the Customary International Law there would be no difficulty in accepting them as part of the domestic law. It is almost an accepted proposition of law that the rules of Customary International Law which are not contrary to the municipal law shall be deemed to have been incorporated in the domestic law and shall be followed by the courts of law. To support we may refer to Justice H.R. Khanna's opinion in *A.D.M. v. Shivakant Shukla*², *Jolly George Varghese case*³ and *Gramophone Co. case*⁴.

16. The constitutional and statutory provisions protect a person's right to fresh air, clean water and pollution-free environment, but the source of the right is the inalienable common law right of clean environment. It would be useful to quote a paragraph from Blackstone's commentaries on the Laws of England (*Commentaries on the Laws of England of Sir William Blackstone*) Vol. III, fourth edition published in 1876. Chapter XIII, "Of Nuisance" depicts the law on the subject in the following words:

"Also, if a person keeps his hogs, or other noisome animals, or allows filth to accumulate on his premises, so near the house of another, that the stench incommodes him and makes the air unwholesome, this is an injurious nuisance, as it tends to deprive him of the use and benefit of his house. A like injury is, if one's neighbour sets up and exercises any offensive trade; as a tanner's, a tallow-chandler's, or the like; for though these are lawful and necessary trades, yet they should be exercised in remote places; for the rule is, 'sic utere tuo, ut alienum non leadas'; this

2 (1976) 2 SCC 521 : AIR 1976 SC 1207

3 *Jolly George Varghese v. Bank of Cochun*, (1980) 2 SCC 360 : AIR 1980 SC 470

4 *Gramophone Co. of India Ltd v Birendra Bahadur Pandey*, (1984) 2 SCC 534 : 1984 SCC (Cri) 313 : AIR 1984 SC 667

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therefore is an actionable nuisance. And on a similar principle a constant ringing of bells in one's immediate neighbourhood may be a nuisance.

- a ... With regard to other corporeal hereditaments; it is a nuisance to stop or divert water that used to run to another's meadow or mill; to corrupt or poison a watercourse, by erecting a dye-house or a lime-pit, for the use of trade, in the upper part of the stream; to pollute a pond, from which another is entitled to water his cattle; to obstruct a drain; or in short to do any act in common property, that in its consequences must necessarily tend to the prejudice of one's neighbour. So closely does the law of England enforce that excellent rule of gospel-morality, of 'doing to others, as we would they should do unto ourselves'."
- b

17. Our legal system having been founded on the British common law the right of a person to a pollution-free environment is a part of the basic jurisprudence of the land.

- c 18. The Statement of Objects and Reasons to the Environment Act, inter alia, states as under:

- d "The decline in environmental quality has been evidenced by increasing pollution, loss of vegetal cover and biological diversity, excessive concentrations of harmful chemicals in the ambient atmosphere and in food-chains, growing risks of environmental accidents and threats to life-support systems. The world community's resolve to protect and enhance the environmental quality found expression in the decisions taken at the United Nations Conference on the Human Environment held in Stockholm in June 1972. The Government of India participated in the Conference and strongly voiced the environmental concerns. While several measures have been taken for environmental protection both before and after the Conference, the need for a general legislation further to implement the decisions of the Conference has become increasingly evident.
- e

- f Existing laws generally focus on specific types of pollution or on specific categories of hazardous substances. Some major areas of environmental hazards are not covered. There also exist uncovered gaps in areas of major environmental hazards. There are inadequate linkages in handling matters of industrial and environmental safety. Control mechanisms to guard against slow, insidious build-up of hazardous substances especially new chemicals in the environment, are weak. Because of a multiplicity of regulatory agencies, there is need for an authority which can assume the lead role for studying, planning and implementing long-term requirements of environmental safety and to give direction to, and coordinate a system of speedy and adequate response to emergency situations threatening the environment.
- g

- h In view of what has been stated above, there is urgent need for the enactment of a general legislation on environmental protection which inter alia, should enable coordination of activities of the various regulatory agencies, creation of an authority or authorities with adequate

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powers for environmental protection, regulation of discharge of environmental pollutants and handling of hazardous substances, speedy response in the event of accidents threatening the environment and deterrent punishment to those who endanger human environment, safety and health.” a

Sections 3, 4, 5, 7 and 8 of the Environment Act which are relevant are as under:

“3. *Power of Central Government to take measures to protect and improve environment.*—(1) Subject to the provisions of this Act, the Central Government shall have the power to take all such measures as it deems necessary or expedient for the purpose of protecting and improving the quality of the environment and preventing, controlling and abating environmental pollution. b

(2) In particular, and without prejudice to the generality of the provisions of sub-section (1), such measures may include measures with respect to all or any of the following matters, namely— c

(i) coordination of actions by the State Governments, officers and other authorities—

(a) under this Act, or the rules made thereunder; or

(b) under any other law for the time being in force which is relatable to the objects of this Act; d

(ii) planning and execution of a nation-wide programme for the prevention, control and abatement of environmental pollution;

(iii) laying down standards for the quality of environment in its various aspects;

(iv) laying down standards for emission or discharge of environmental pollutants from various sources whatsoever; e

Provided that different standards for emission or discharge may be laid down under this clause from different sources having regard to the quality or composition of the emission or discharge of environmental pollutants from such sources; f

(v) restriction of areas in which any industries, operations or processes or class of industries, operations or processes shall not be carried out or shall be carried out subject to certain safeguards;

(vi) laying down procedures and safeguards for the prevention of accidents which may cause environmental pollution and remedial measures for such accidents; g

(vii) laying down procedures and safeguards for the handling of hazardous substances;

(viii) examination of such manufacturing processes, materials and substances as are likely to cause environmental pollution;

(ix) carrying out and sponsoring investigations and research relating to problems of environmental pollution; h

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a (x) inspection of any premises, plant, equipment, machinery, manufacturing or other processes, materials or substances and giving, by order, of such directions to such authorities, officers or persons as it may consider necessary to take steps for the prevention, control and abatement of environmental pollution;

(xi) establishment or recognition of environmental laboratories and institutes to carry out the functions entrusted to such environmental laboratories and institutes under this Act;

b (xii) collection and dissemination of information in respect of matters relating to environmental pollution;

(xiii) preparation of manuals, codes or guides relating to the prevention, control and abatement of environmental pollution;

c (xiv) such other matters as the Central Government deems necessary or expedient for the purpose of securing the effective implementation of the provisions of this Act.

d (3) The Central Government may, if it considers it necessary or expedient so to do for the purposes of this Act, by order, published in the Official Gazette, constitute an authority or authorities by such name or names as may be specified in the order for the purpose of exercising and performing such of the powers and functions (including the power to issue directions under Section 5) of the Central Government under this Act and for taking measures with respect to such of the matters referred to in sub-section (2) as may be mentioned in the order and subject to the supervision and control of the Central Government and the provisions of such order, such authority or authorities may exercise the powers or perform the functions or take the measures so mentioned in the order as if such authority or authorities had been empowered by this Act to exercise those powers or perform those functions or take such measures.

f 4. *Appointment of officers and their powers and functions.*—(1) Without prejudice to the provisions of sub-section (3) of Section 3, the Central Government may appoint officers with such designations as it thinks fit for the purposes of this Act and may entrust to them such of the powers and functions under this Act as it may deem fit.

g (2) The officers appointed under sub-section (1) shall be subject to the general control and direction of the Central Government or, if so directed by that Government, also of the authority or authorities, if any, constituted under sub-section (3) of Section 3 or of any other authority or officer.

h 5. *Power to give directions.*—Notwithstanding anything contained in any other law but subject to the provisions of this Act, the Central Government may, in the exercise of its powers and performance of its functions under this Act, issue directions in writing to any person, officer or any authority and such person, officer or authority shall be bound to comply with such directions.

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Explanation.—For the avoidance of doubts, it is hereby declared that the power to issue directions under this section includes the power to direct—

(a) the closure, prohibition or regulation of any industry, operation or process; or

(b) stoppage or regulation of the supply of electricity or water or any other service.

7. *Persons carrying on industry, operation, etc., not to allow emission or discharge of environmental pollutants in excess of the standards.*—No person carrying on any industry, operation or process shall discharge or emit or permit to be discharged or emitted any environmental pollutant in excess of such standards as may be prescribed.

8. *Persons handling hazardous substances to comply with procedural safeguards.*—No person shall handle or cause to be handled any hazardous substance except in accordance with such procedure and after complying with such safeguards as may be prescribed.”

19. Rules 3(1), 3(2) and 5(1) of the Environment (Protection) Rules, 1986 (the Rules) are as under:

“3. *Standards for emission or discharge of environmental pollutants.*—(1) For the purposes of protecting and improving the quality of the environment and preventing and abating environmental pollution, the standards for emission or discharge of environmental pollutants from the industries, operations or processes shall be as specified in Schedules I to IV.

3. (2) Notwithstanding anything contained in sub-rule (1), the Central Board or a State Board may specify more stringent standards from those provided in Schedules I to IV in respect of any specific industry, operation or process depending upon the quality of the recipient system and after recording reasons therefor in writing.

5. *Prohibition and restriction on the location of industries and the carrying on of processes and operations in different areas.*—(1) The Central Government may take into consideration the following factors while prohibiting or restricting the location of industries and carrying on of processes and operations in different areas—

(i) Standards for quality of environment in its various aspects laid down for an area.

(ii) The maximum allowable limits of concentration of various environmental pollutants (including noise) for an area.

(iii) The likely emission or discharge of environmental pollutants from an industry, process or operation proposed to be prohibited or restricted.

(iv) The topographic and climatic features of an area.

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- (v) The biological diversity of the area which, in the opinion of the Central Government needs to be preserved.
- a (vi) Environmentally compatible land use.
- (vii) Net adverse environmental impact likely to be caused by an industry, process or operation proposed to be prohibited or restricted.
- b (viii) Proximity to a protected area under the Ancient Monuments and Archaeological Sites and Remains Act, 1958 or a sanctuary, National Park, game reserve or closed area notified as such under the Wild Life (Protection) Act, 1972 or places protected under any treaty, agreement or convention with any other country or countries or in pursuance of any decision made in any international conference, association or other body.
- c (ix) Proximity to human settlements.
- (x) Any other factor as may be considered by the Central Government to be relevant to the protection of the environment in an area."

- 20.** It is thus obvious that the Environment Act contains useful provisions for controlling pollution. The main purpose of the Act is to create
- d an authority or authorities under Section 3(3) of the Act with adequate powers to control pollution and protect the environment. It is a pity that till date no authority has been constituted by the Central Government. The work which is required to be done by an authority in terms of Section 3(3) read with other provisions of the Act is being done by this Court and the other courts in the country. It is high time that the Central Government realises its
 - e responsibility and statutory duty to protect the degrading environment in the country. If the conditions in the five districts of Tamil Nadu, where tanneries are operating, are permitted to continue then in the near future all rivers/canals shall be polluted, underground waters contaminated, agricultural lands turned barren and the residents of the area exposed to serious diseases. It is, therefore, necessary for this Court to direct the Central
 - f Government to take immediate action under the provisions of the Environment Act.

- 21.** There are more than 900 tanneries operating in the five districts of Tamil Nadu. Some of them may, by now, have installed the necessary pollution control measures; they have been polluting the environment for over a decade and in some cases even for a longer period. This Court has in
- g various orders indicated that these tanneries are liable to pay pollution fine. The polluters must compensate the affected persons and also pay the cost of restoring the damaged ecology.

- 22.** Mr M.C. Mehta, the learned counsel for the petitioner has invited our attention to the notification GOMs No. 213 dated 30-3-1989 which reads as under:

- h "In the government order first read above, the Government have ordered, among other things, that no industry causing serious water

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pollution should be permitted within one kilometre from the embankments of rivers, streams, dams, etc. and that the Tamil Nadu Pollution Control Board should furnish a list of such industries to all local bodies. It has been suggested that it is necessary to have a sharper definition for water sources so that ephemeral water collections like rainwater ponds, drains, sewerages (bio-degradable) etc. may be excluded from the purview of the above order. The Chairman, Tamil Nadu Pollution Control Board has stated that the scope of the government order may be restricted to reservoirs, rivers and public drinking-water sources. He has also stated that there should be a complete ban on location of highly polluting industries within 1 kilometre of certain water sources. a

2. The Government have carefully examined the above suggestions. The Government impose a total ban on the setting up of the highly polluting industries mentioned in Annexure I to this order within one kilometre from the embankments of the water sources mentioned in Annexure II to this order. b

3. The Government also direct that under any circumstances if any highly polluting industry is proposed to be set up within one kilometre from the embankments of the water sources other than those mentioned in Annexure II to this order, the Tamil Nadu Pollution Control Board should examine the case and obtain the approval of the Government for it.” c

Annexure I to the notification includes distilleries, tanneries, fertilizer, steel plants and foundries as the highly polluting industries. We have our doubts whether the above-quoted government order is being enforced by the Tamil Nadu Government. The order has been issued to control pollution and protect the environment. We are of the view that the order should be strictly enforced and no industry listed in Annexure I to the order should be permitted to be set up in the prohibited area. d

23. The learned counsel for the tanneries raised an objection that the standard regarding total dissolved solids (TDS) fixed by the Board was not justified. This Court by the order dated 9-4-1996 directed the NEERI to examine this aspect and give its opinion. In its report dated 11-6-1996 NEERI has justified the standards stipulated by the Board. The reasoning of the NEERI given in its report dated 11-6-1996 is as under: e

“The total dissolved solids in ambient water have physiological, industrial and economic significance. The consumer’s acceptance of mineralized water decreases in direct proportion to increased mineralization as indicated by Bruvold (1). High total dissolved solids (TDS), including chlorides and sulphates, are objectionable due to possible physiological effects and mineral taste that they impart to water. High levels of total dissolved solids produce laxative/cathartic/purgative effect in consumers. The requirement of soap and other detergents in household and industry is directly related to water hardness as brought f

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a out by DeBoer and Larsen (2). High concentration of mineral salts, particularly sulphates and chlorides, are also associated with costly corrosion damage in wastewater treatment systems, as detailed by Patterson and Banker (3). Of particular importance is the tendency of scale deposits with high TDS thereby resulting in high fuel consumption in boilers.

b The Ministry of Environment and Forests (MEF) has not categorically laid down standards for inland surface water discharge for total dissolved solids (TDS), sulphates and chlorides. The decision on these standards rests with the respective State Pollution Control Boards as per the requirements based on local site conditions. The standards stipulated by the TNPCB are justified on the afore-referred considerations.

c The prescribed standards of the TNPCB for inland surface water discharge can be met for tannery wastewaters cost effectively through proper implant control measures in tanning operation, and rationally designed and effectively operated wastewater treatment plants (ETPs and CETPs). Tables 3 and 5 depict the quality of groundwater in some areas around tanneries during peak summer period (3-6-1996 to 5-6-1996). Table 8 presents the data collected by TNPCB at individual ETPs indicating that TDS, sulphates and chloride concentrations are below the prescribed standards for inland surface water discharge. The quality of ambient waters needs to be maintained through the standards stipulated by TNPCB.”

e **24.** The Board has the power under the Environment Act and the Rules to lay down standards for emissions or discharge of environmental pollutants. Rule 3(2) of the Rules even permits the Board to specify more stringent standards from those provided under the Rules. The NEERI having justified the standards stipulated by the Board, we direct that these standards are to be maintained by the tanneries and other industries in the State of Tamil Nadu.

f **25.** Keeping in view the scenario discussed by us in this judgment, we order and direct as under:

g 1. The Central Government shall constitute an authority under Section 3(3) of the Environment (Protection) Act, 1986 and shall confer on the said authority all the powers necessary to deal with the situation created by the tanneries and other polluting industries in the State of Tamil Nadu. The authority shall be headed by a retired Judge of the High Court and it may have other members — preferably with expertise in the field of pollution control and environment protection — to be appointed by the Central Government. The Central Government shall confer on the said authority the powers to issue directions under Section 5 of the Environment Act and for taking measures with respect to the matters referred to in clauses (v), (vi), (vii), (viii), (ix), (x) and (xii) of sub-section (2) of Section 3. The Central Government shall constitute the authority before September 30, 1996.

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2. The authority so constituted by the Central Government shall implement the "Precautionary Principle" and the "Polluter Pays Principle". The authority shall, with the help of expert opinion and after giving opportunity to the polluters concerned assess the loss to the ecology/environment in the affected areas and shall also identify the individuals/families who have suffered because of the pollution and shall assess the compensation to be paid to the said individuals/families. The authority shall further determine the compensation to be recovered from the polluters as cost of reversing the damaged environment. The authority shall lay down just and fair procedure for completing the exercise.

3. The authority shall compute the compensation under two heads namely, for reversing the ecology and for payment to individuals. A statement showing the total amount to be recovered, the names of the polluters from whom the amount is to be recovered, the amount to be recovered from each polluter, the persons to whom the compensation is to be paid and the amount payable to each of them shall be forwarded to the Collectors/District Magistrates of the area concerned. The Collector/District Magistrate shall recover the amount from the polluters, if necessary, as arrears of land revenue. He shall disburse the compensation awarded by the authority to the affected persons/families.

4. The authority shall direct the closure of the industry owned/managed by a polluter in case he evades or refuses to pay the compensation awarded against him. This shall be in addition to the recovery from him as arrears of land revenue.

5. An industry may have set up the necessary pollution control device at present but it shall be liable to pay for the past pollution generated by the said industry which has resulted in the environmental degradation and suffering to the residents of the area.

6. We impose pollution fine of Rs 10,000 each on all the tanneries in the districts of North Arcot Ambedkar, Erode Periyar, Dindigul Anna, Trichi and Ch. gai M.G.R. The fine shall be paid before October 31, 1996 in the office of the Collector/District Magistrate concerned. We direct the Collectors/District Magistrates of these districts to recover the fines from the tanneries. The money shall be deposited, along with the compensation amount recovered from the polluters, under a separate head called "Environment Protection Fund" and shall be utilised for compensating the affected persons as identified by the authorities and also for restoring the damaged environment. The pollution fine is liable to be recovered as arrears of land revenue. The tanneries which fail to deposit the amount by October 31, 1996 shall be closed forthwith and shall also be liable under the Contempt of Courts Act, 1971.

7. The authority, in consultation with expert bodies like NEERI, Central Board, Board shall frame scheme/schemes for reversing the damage caused to the ecology and environment by pollution in the State of Tamil Nadu. The scheme/schemes so framed shall be executed by the State Government under the supervision of the Central Government. The

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a expenditure shall be met from the "Environment Protection Fund" and from other sources provided by the State Government and the Central Government.

b 8. We suspend the closure orders in respect of all the tanneries in the five districts of North Arcot Ambedkar, Erode Periyar, Dindigul Anna, Trichi and Chengai M.G.R. We direct all the tanneries in the above five districts to set up CETPs or Individual Pollution Control Devices on or before November 30, 1996. Those connected with CETPs shall have to install in addition the primary devices in the tanneries. All the tanneries in the above five districts shall obtain the consent of the Board to function and operate with effect from December 15, 1996. The tanneries who are refused consent or who fail to obtain the consent of the Board by December 15, 1996 shall be closed forthwith.

c 9. We direct the Superintendent of Police and the Collector/District Magistrate/Deputy Commissioner of the district concerned to close all those tanneries with immediate effect who fail to obtain the consent from the Board by the said date. Such tanneries shall not be reopened unless the authority permits them to do so. It would be open to the authority to close such tanneries permanently or to direct their relocation.

d 10. Government Order No. 213 dated March 30, 1989 shall be enforced forthwith. No new industry listed in Annexure I to the notification shall be permitted to be set up within the prohibited area. The authority shall review the cases of all the industries which are already operating in the prohibited area and it would be open to the authority to direct the relocation of any of such industries.

e 11. The standards stipulated by the Board regarding total dissolved solids (TDS) and approved by the NEERI shall be operative. All the tanneries and other industries in the State of Tamil Nadu shall comply with the said standards. The quality of ambient waters has to be maintained through the standards stipulated by the Board.

f 26. We have issued comprehensive directions for achieving the end result in this case. It is not necessary for this Court to monitor these matters any further. We are of the view that the Madras High Court would be in a better position to monitor these matters hereinafter. We, therefore, request the Chief Justice of the Madras High Court to constitute a Special Bench "Green Bench" to deal with this case and other environmental matters. We make it clear that it would be open to the Bench to pass any appropriate order/orders keeping in view the directions issued by us. We may mention that "Green Benches" are already functioning in Calcutta, Madhya Pradesh and some other High Courts. We direct the Registry of this Court to send the records to the Registry of the Madras High Court within one week. The High Court shall treat this matter as a petition under Article 226 of the Constitution of India and deal with it in accordance with law and also in terms of the directions issued by us. We give liberty to the parties to approach the High Court as and when necessary.

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27. Mr M.C. Mehta has been assisting this Court to our utmost satisfaction. We place on record our appreciation for Mr Mehta. We direct the State of Tamil Nadu to pay Rs 50,000 towards legal fees and other out of pocket expenses incurred by Mr Mehta. a

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(BEFORE B.P. JEEVAN REDDY AND SUHAS C. SEN, JJ.)

P. KANNADASAN AND OTHERS

Appellants/
Petitioners; b

Versus

STATE OF T.N. AND OTHERS

Respondents. c

Civil Appeals No. 9847 of 1996 with Nos. 9849, 9780-81, 9905, 9851, 9906-07, 9777, W.Ps. Nos. 269 of 1995, 270 of 1994, 9908-09, 9850, 9778, 9910, 408, 9911-13 of 1996, 518, 9914-15 of 1996, 688 of 1992, 9848, 9774-76, 9916 and 9917 of 1996†, decided on July 26, 1996

A. Mines and Minerals — Cess and Other Taxes on Minerals (Validation) Act, 1992 — S. 2(1), (2) & (3) and the Sch. — Validity — State laws imposing cess or other taxes on minerals found by the Supreme Court/High Courts to be beyond the legislative competence of the State Legislature — Provision in S. 2 validating such State laws, held, not beyond the legislative competence of Parliament — Contention that the said provision sought to overturn the judicial decisions, repelled — Constitution of India, Arts. 245 & 246, 265 and Sch. VII List I Entries 54 & 97 & List II Entries 23 and 50 — Statute Law — Validating statute — Constitutional law — Separation of powers — Words and phrases — “Checks and balances” — Mines and Minerals (Regulation and Development) Act, 1957, Ss. 2, 9 & 9-A and Sch. II — Panchayats and Zila Parishads — T.N. Panchayats Act, 1958 (35 of 1958), S. 115 — Tax — Cess d e

B. Mines and Minerals — Cess and Other Taxes on Minerals (Validation) Act, 1992 — S. 2(1) and the Sch. — Validity — State laws imposing cess or other taxes on minerals found by the Supreme Court/High Courts to be beyond the legislative competence of the State Legislature — Provision in S. 2(1) validating such State laws from the date on which they were enacted by the State Legislature concerned, held, not bad for retrospectivity — Statute law — Validating statute — Statute validating a tax retrospectively — Validity — Taxation — Taxing statutes — Retrospective validation of an invalid taxing statute — Taxing Statutes — Constitution of India, Art. 265 f

C. Interpretation of the Constitution — Final arbiter on, held, is the Supreme Court — Constitution of India, Arts. 141, 32 and 136 — Interpretation of the Constitution g

Certain States had enacted statutes imposing a local cess on minerals which were annulled by the Supreme Court/High Courts for want of legislative competence. Therefore, Parliament enacted the Cess and Other Taxes on Minerals (Validation) Act, 1992 deeming such Acts, including Tamil Nadu Panchayats Act, 1958, Section 115, always to have been valid as if enacted by Parliament. The 1992 h

† From the Judgment and Order dated 27-6-1994 of the Madras High Court in WP No 14178 of 1989



Fw: Counter Affidavit in Appeal No.49 of 2026 - Panipal Thermal Power Station Vs. CAQM & Ors.

From Faheem Ahmad <ansari_faheem47@hotmail.com>

Date Tue 7/14/2026 1:29 PM

To rkhranalegal@gmail.com <rkhranalegal@gmail.com>



[PTPS Counter Affidavit_compressed.pdf](#)

Madam /Sir,

Kindly accept the service in the above subject matter on behalf of CAQM from Dr. Abhishek Atrey Advocate.

Faheem Ahmad

From Office of Dr. Abhishek Atrey, Advocate
Chamber No.D-202, New Additional Building Complex,
Supreme Court of India, New Delhi
Email: abhishekatrey@gmail.com
Mobile No.9810047556