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BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL

PRINCIPAL BENCH, NEW DELHI

O. A. NO. 878/2022

IN THE MATTER OF:

TAMILNADU FLY ASH BRICK AND

BLOCKS MANUFACTURERS ASSOCIATION

...APPLICANT

VERSUS

GOVT. OF INDIA & ORS.

...RESPONDENTS

STATEMENT OF OBJECTIONS ON BEHALF OF RESPONDENT NO.  
5/NTPC LTD.

(PLEASE SEE THE INDEX INSIDE)

ADVOCATE FOR THE RESPONDENT NO. 5: SHAILESH MADIYAL

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## BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL

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...APPLICANT

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GOVT. OF INDIA &amp; ORS.

...RESPONDENTS

**STATEMENT OF OBJECTIONS ON BEHALF OF RESPONDENT NO.  
5/NTPC LTD.**TO  
HON'BLE CHAIRPERSON  
AND HIS COMPANION MEMBERS OF THE  
NATIONAL GREEN TRIBUNALTHE OBJECTIONS ON BEHALF OF THE  
RESPONDENT NO. 5.**MOST RESPECTFULLY SHOWETH: -**

1. The present Application has been filed by the Applicant alleging, inter-alia, that the Respondent Nos. 6 to 12 are selling the Fly Ash in violation of the Order dated 18.01.2022 passed by this Hon'ble Tribunal in Original Application No. 164/2018 titled as *Ashwani Kumar Dubey Vs. Union of India and Ors.* and Order dated 25.08.2022 passed by this Hon'ble Tribunal in Original Application No. 327/2022 titled as *Amravati Fly Ash Bricks Manufactures Association Vs. Union of India and Ors.*
2. That this Hon'ble Tribunal, vide its order dated 15.12.2022, has granted the Answering Respondent/NTPC Ltd. to file its response to the captioned Original Application. Further, the Answering Respondent/NTPC Ltd. is also directed to mention the action taken by it for compliance with the order passed by this Tribunal and the circular/Office Memorandum issued by Ministry of Power, Government of India dated 06.12.2022.
3. The utilization of fly ash has been regulated from time to time by various orders/circulars/notifications issued by the Ministry of Environment, Forest and Climate Change [hereinafter the 'MoEF&CC'], Government of India. By a notification issued on 14.09.1999, amended from time to time – i.e. on 27.08.2003, 03.11.2009, 25.01.2016, the framework for utilization of fly ash was set out. The

notification dated 14.09.1999 was superseded by another notification dated 31.12.2021, which inter-alia, mandated that it was the responsibility of the Thermal Power Plant [hereinafter the 'TPP'], to dispose-off the fly ash and towards this end it was also provided, inter-alia, that the TPP would be responsible for 100% utilization of fly ash within the timeline prescribed in the said notification. All these notifications permitted the TPPs to dispose-off the Fly-ash including by way of sale in order to maximize the utilization. The notification dated 31.12.2021 also mandates at clause B(1) that all agencies engaged in construction activities such as road laying, road and flyover embankments, shoreline protection structures in coastal districts and dams, which are within 300 Kms from a lignite or coal based TPP, are mandatorily required to utilise the ash provided that it is delivered and transported at the cost of the TPP. Broadly, in other situations, the TPP is entitled to charge for the ash cost and transportation in terms of the proviso to the said clause. The copies of the notifications dated 03.11.2009, 25.01.2016 and 31.12.2021 issued by the MoEF&CC as also the OM dated 14.07.2016 are annexed herewith and marked as **R-5/1 [Colly.]** [Pages 8 to 47].

4. It is submitted that pursuant to the notifications issued by the MoEF&CC, from time to time, 100% ash utilization is the mandate and the Answering Respondent has been employing several methods, as per the existing notifications, viz. offer free of cost, auction/sale, free of cost delivery, filling up of mine voids etc. to achieve the said mandate. It is pertinent to mention that the MoEF&CC Notification dated 31.12.2021 does not make it mandatory to supply the fly ash free of cost and bear the transportation cost towards the same. It is submitted that the sale of fly ash through auction/competitive bidding have not been introduced for the first time. The competitive bidding/auction of fly ash has been adopted by the Answering Respondent since 2009 i.e. long before issue of Advisory dated 22.09.2021 and that sale of ash through bidding/auction is not in contravention of the MoEF&CC Notifications. Pertinently, the revenue generated through sale of ash is being passed on to the consumers by the way of reduced electricity tariff. It is further submitted

- that the sale of ash has only helped in further increase of ash utilization in the last several years.
5. It is submitted that there are several plants/stations of the Answering Respondent where the Answering Respondent is able to achieve 100% ash-utilization either without any payment or on payment of the transportation cost to the third-party agency lifting the ash. However, there are several other plants/stations of the Answering Respondent where ash-utilization is less than 100% inspite of offering the free fly ash with free transportation to the end-users. A tabular chart indicating the names of the plants/stations of the Answering Respondent which are achieving the 100% ash-utilization and also the plants/stations of the Answering Respondent which not able to achieve the 100% ash-utilization, along with reasons, is annexed herewith and marked as R-5/2 [Pages 48 to —].
  6. It is submitted that the NTPC Ltd./Answering Respondent and its subsidiaries have, in the past, been employing the methods of auction/sale to dispose-off the fly-ash and have towards this end entered into various contracts with third parties. In addition, it has also been supplying the fly-ash free of cost to the concerned agencies in order to utilize the ash generated and also the stored ash at the earliest. A summary of the data pertaining to total Ash utilization as against the total Ash generation (year-wise), the data pertaining to disposal of Ash (both Pond Ash and Fly Ash) through Auction and also free of cost through transportation (either by bearing the transportation cost or not), of 33 plants of the Answering Respondent, is being placed on record to show that the Answering Respondent is making constant efforts to achieve the 100% ash utilization. The aforesaid summary of the data pertaining to total Ash utilization as against the total Ash generation, of 33 plants of the Answering Respondent, are annexed herewith and marked as R-5/3 [Colly.] [Pages 49 to 81].
  7. That after issuance of the circular/Office Memorandum dated 06.12.2022, issued by Ministry of Power, Government of India and the order dated 15.12.2022 passed by this Hon'ble Tribunal, the Answering Respondent and its subsidiaries have, as a matter of abundant caution, not been giving effect to its fresh sale/auction

- commitments (which have not already commenced). However, where the contracts/mutual understandings have already been entered into, the same are being given effect to since if this is not done, the Fly-Ash would necessarily be required to be stored and that would lead to an Environmental hazard.
8. It is submitted that before issuance of the circular/Office Memorandum dated 06.12.2022, issued by Ministry of Power, Government of India, the Answering Respondent had a total of approximately 700 existing sale orders [both ongoing and fresh], for both Dry Fly Ash and Pond Ash, at its different plants/stations in the country where the third-party agencies were lifting the Fly Ash on regular basis and the Answering Respondent was issuing the sale orders from time to time. However, after the issuance of the aforesaid circular/Office Memorandum dated 06.12.2022, the Answering Respondent is not able to honour its new commitments/sale orders of Ash (both, Dry Fly Ash and Pond Ash), issues by several plants/stations of the Answering Respondent and have put on hold the activities related to disposal of ash in transparent manner including by way of auction. A list of existing/just expired sale orders of Ash (both, Dry Fly Ash and Pond Ash), with the plants/stations of the Answering Respondent, are annexed herewith and marked as R-5/4 [Colly.] [Pages 82 to 83].
9. It is reiterated that in absence of fresh contracts/agreements, the Answering Respondent may be forced to send/store the generated ash in ash dykes/ponds, which will not only adversely affect the ash utilization but is also against the spirit of MoEF&CC Notification dated 31.12.2021. It is significant to mention that non-compliance of the MoEF&CC notification dated 31.12.2021 will result in payment of Environment Compensation ['EC'] by the Answering Respondent based upon the Polluter Pays Principle. It is submitted that this may create a situation in which the Answering Respondent will be forced to not only to not-utilize the ash but also to pay hefty EC.
10. It would not be out of place to mention that this Hon'ble Tribunal, on 15.12.2022, in the matter of Original Application No. 327/2022 titled as *Amravati Fly Ash Bricks*

*Manufactures Association Vs. Union of India and Ors.*, inter-alia, observed in para 8 of the said order that:

“.....Generally speaking, there can be no objection to any method including sale of utilization and disposal of fly Ash so long as the same facilitates timely utilization and disposal of entire fly Ash generated and does not cause any hindrance/obstruction to utilization and disposal of the same.”

The Answering Respondent, being a responsible Public Sector Undertaking/Corporate entity, adopt methods that are transparent and provides equal opportunities to prevent favoritism and arbitrariness. It is submitted that, to maintain transparency and to avoid any arbitrariness, competitive bidding process is the most suitable method for allocation and disposal of ash.

11. It is submitted that the MoEF&CC notification dated 31.12.2021, at clause B(1) permits a hybrid mode of disposal of Fly-Ash-by free delivery as also by mutual understanding. The requirement of free delivery is not the only method that is mandated. In fact, in terms of clause B(1) of the MoEF&CC notification dated 31.12.2021, the user agencies mentioned therein are necessarily required to utilize the Fly-Ash only when the same is delivered free of cost. Independent of this, there is no specific mandate which requires the TPPs to deliver free Fly-Ash in every circumstance. Accordingly, even independent of the Ministry of Power's advisory dated 22.02.2022, the Answering Respondent and its subsidiaries were exploring all options for maximum disposal of Fly-Ash [as detailed above]. It is however, reiterated that after the issuance of circular/Office Memorandum dated 06.12.2022, issued by Ministry of Power, Government of India, the Answering Respondent has stopped entering into any new commitments/sale orders of Ash (both, Dry Fly Ash and Pond Ash) or from complying with any fresh obligations which have not already commenced.

#### PRAYER

WHEREFORE, it is most respectfully prayed that this Hon'ble Tribunal may be pleased to take on record the Statement of Objections filed by the Answering Respondent; and consider the contents of the above Statement of Objections and

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6.

Dismiss the Original Application filed by the Applicant.

  
RESPONDENT NO. 5  
अपर महाप्रबंधक (अश प्रबन्धन)  
THROUGH  
Add. General Manager (Ash Management)  
एनटीपीसी लिमिटेड / NTPC Limited  
EOC, A-8A, Sector-24, Noida-201301 (U.P.)

  
[SHAILESH MADIYAL]

ADVOCATE FOR RESPONDENT NO. 5

PLACE: NEW DELHI

DATED: 30/01/2023

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL

PRINCIPAL BENCH, NEW DELHI

O. A. NO. 878/2022

IN THE MATTER OF:

TAMILNADU FLY ASH BRICK AND

BLOCKS MANUFACTURERS ASSOCIATION

...APPLICANT

VERSUS

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...RESPONDENTS

AFFIDAVIT

I, G. Rajashekar, S/o Shri G. Veeraswamy, aged about 53 years, presently working as Additional General Manager [Ash Management] with NTPC Ltd., do hereby solemnly affirm and state as under:-

1. That I am the Authorised Signatory of the Respondent No. 5 in the abovementioned matter. That I am fully acquainted with the facts and circumstances of the present case and hence, I am competent to sign and swear this Affidavit.
2. That the contents of the accompanying Statement of Objections, which has been drafted under my instructions, are true and correct to the best of my knowledge as derived from the official records and nothing material has been concealed therefrom.
3. That the annexures R-5/1 - R-5/4 (copy) annexed with the accompanying Statement of Objections are true copies of their respective originals and annexures                      are true translated/typed copies of their respective originals.

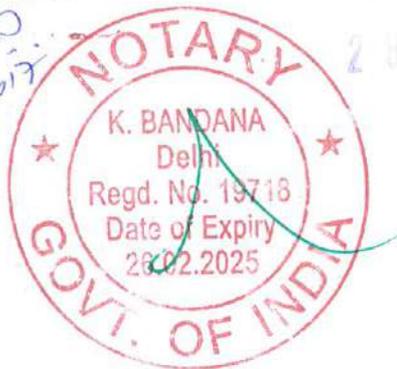
*G. Rajashekar*  
**जी. राजा शेखर/G. RAJA SHEKAR**  
**DERIVANT** (राख प्रबन्धन)  
 Addl. General Manager (Ash Management)  
**एनटीपीसी लिमिटेड/NTPC Limited**  
 EOC, A-8A, Sector-24, Noida-201301 (U.P.)

VERIFICATION

Verified at New Delhi on this the 28 JAN day of January, 2023 that the contents of the above affidavit from paras 1 to 3 are correct and true to the best of my knowledge and belief and nothing material has been concealed therefrom.

IDENTIFIED

*G. Rajashekar*  
**जी. राजा शेखर/G. RAJA SHEKAR**  
**DERIVANT** (राख प्रबन्धन)  
 Addl. General Manager (Ash Management)  
**एनटीपीसी लिमिटेड/NTPC Limited**  
 EOC, A-8A, Sector-24, Noida-201301 (U.P.)



ATTESTED

*[Signature]*  
 NOTARY PUBLIC, DELHI  
 GOVT. OF INDIA



ANNEXURE R-5/1 (COLLY.)

# भारत का राजपत्र

## The Gazette of India

असाधारण

EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)

PART II—Section 3—Sub-section (ii)

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं. 1799]

नई दिल्ली, मंगलवार, नवम्बर 3, 2009/कार्तिक 12, 1931

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NEW DELHI, TUESDAY, NOVEMBER 3, 2009/KARTIKA 12, 1931

पर्यावरण और वन मंत्रालय

अधिसूचना

नई दिल्ली, 3 नवम्बर, 2009

का.आ. 2804(अ).—केन्द्रीय सरकार ने, पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 3 की उपधारा (1) उपधारा (2) के खंड (V) तथा धारा 5 के अधीन जारी की गई भारत सरकार के पर्यावरण और वन मंत्रालय की अधिसूचना सं. का. आ. 763 (अ) तारीख 14 सितंबर, 1999 द्वारा (जिसे इसमें इसके पश्चात् उक्त अधिसूचना कहा गया है) ईंटों के विनिर्माण के लिए ऊपरी मृदा के उत्खनन तथा निर्माण सामग्री के विनिर्माण में फ्लाई ऐश के उपयोग का संवर्धन करने तथा कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्रों से एक सौ किलोमीटर के विनिर्दिष्ट अर्धव्यास के भीतर संनिर्माण क्रियाकलाप को निर्बंधित करने के लिए निदेश जारी किए हैं;

और "फ्लाई ऐश" पद से तापीय विद्युत संयंत्र में जनित कोयला या लिग्नाइट ऐश के सभी प्रवर्ग या समूह इलेक्ट्रोस्टैटिक प्रेसिपिटेटर (ई एस पी) बैग फिल्टर या उसी तरह के अन्य उपयुक्त उपस्कर ऐश अभिप्रेत और सम्मिलित हैं; या बैग निचली ऐश बायलर की पेंदी में पृथक रूप से संग्रहीत ऐश है ; पोन्ड ऐश और माउंड ऐश ई एस पी ऐश या शुष्क फ्लाई ऐश तथा निचली ऐश का सम्मिश्रण है किन्तु, इस अधिसूचना के प्रयोजन के लिए "फ्लाई ऐश" पद इलेक्ट्रोस्टैटिक प्रेसिपिटेटर (ई एस पी), बैग फिल्टर या उसी तरह के अन्य उपयुक्त उपस्कर ऐश, शुष्क, फ्लाई ऐश, निचली ऐश और माइंड ऐश के रूप में सभी ऐश अभिप्रेत और सम्मिलित है क्योंकि सभी ऐशों का उपयोग करना उद्देश्य है ।

और ईंटों के विनिर्माण के लिए तथा अन्य संकर्म के लिए जिसमें ऊपरी मृदा का उपयोग तथा कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्रों द्वारा उत्पादित फ्लाई ऐश के उपयोग का संवर्धन

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MINISTRY OF ENVIRONMENT AND FORESTS

## NOTIFICATION

New Delhi, the 3rd November, 2009

**S.O. 2804(E).**—WHEREAS, by notification of the Government of India in the Ministry of Environment and Forests number S.O. 763(E), dated the 14<sup>th</sup> September, 1999 (hereinafter referred to as the said notification) issued under sub-section (1), clause (v) of sub-section (2) of section 3 and section 5 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government, issued directions for restricting the excavation of top soil for manufacture of bricks and promoting the utilisation of fly ash in the manufacture of building materials and in construction activity within a specified radius of one hundred kilometers from coal or lignite based thermal power plants;

AND WHEREAS, the term “fly ash” means and includes all categories or groups of coal or lignite ash generated at the thermal power plant and collected by Electrostatic Precipitator (ESP) or bag filters or other similar suitable equipments; bottom ash is the ash collected separately at the bottom of the boiler; pond ash is the mixture of ESP Fly ash and bottom ash, but, for the purpose of this notification, the term “fly ash” means and includes all ash generated such as Electrostatic Precipitator (ESP) ash, dry fly ash, bottom ash, pond ash and mound ash as the objective is to utilise all the ashes;

AND WHEREAS, there is a need for restricting the excavation of top soil for manufacture of bricks and for other works which involve use of top soil and promoting utilisation of fly ash produced by coal or lignite based thermal power plants including captive power plants and co-generation plants in the manufacture of building materials and construction activity;

AND WHEREAS, it was observed that there was a gradual increase in the use of fly ash in the manufacture of fly ash bricks or products from about 1.5 million tonne in 2002-2003 to 3.19 million tonne in 2006-2007 which needs to be further encouraged for achieving the ultimate objective of conservation of top soil and minimise environmental pollution caused due to fly ash;

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AND WHEREAS, it is observed that construction agencies are yet to achieve their targets of utilization of fly ash based products even after the 31<sup>st</sup> August, 2007, the date prescribed for 100% utilisation of fly ash based products in the said notification of 1999 and it is also observed that many thermal power stations or plants are also yet to achieve the targets drawn up in their action plans;

AND WHEREAS, the representations of the brick kiln owners were considered with regard to transporting of fly ash over a long distance and also the logistics involved including the energy cost;

AND, WHEREAS, the issue has been examined by the Government of India in the Ministry of Environment and Forests;

AND WHEREAS, the Central Government is of the opinion that the said notification should be amended;

AND WHEREAS, clause (a) of sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986 provides that whenever the Central Government considers that prohibition or restrictions of any industry or carrying on any processes or operation in any area should be imposed, it shall give notice of its intention to do so;

AND WHEREAS, a draft of amendment to the Government of India, Ministry of Environment and Forests notification no. S.O.763 (E), dated the 14th September, 1999 duly amended vide notification No. S.O. 979 (E), dated the 27<sup>th</sup> August, 2003 (hereinafter referred to as the said notification) which the Central Government proposes to make under subsection (1), clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 (29 of 1986) read with clause (d) of sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, were published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (ii) dated the 6<sup>th</sup> November, 2008 vide S.O. 2623 (E), inviting objections and suggestions from all persons likely to be affected thereby before the expiry of sixty days from the date on which copies of the Gazette containing the said draft amendments were made available to the public.

AND WHEREAS, copies of the said Gazette were made available to the public on the day of 6<sup>th</sup> November 2008;

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AND WHEREAS, the objections and suggestions received from various persons or agencies likely to be affected thereby in respect of the said draft notification have been duly considered by the Central Government in the Ministry of Environment and Forests;

Now, therefore, in exercise of the powers conferred by sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 (29 of 1986) read with clause (d) of sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, the Central Government hereby makes the following amendments to the said notification, namely: -

### AMENDMENTS

1. Throughout the said notification, save as otherwise expressly provided and unless the context otherwise requires, for the word "ash" wherever it occurs, the words "fly ash" shall be substituted.

2. In the said notification, in paragraph 1,—

(a) for sub-paragraph (1), the following shall be substituted, namely:-

"(i) use of fly ash based products in construction activities";

(b) for sub-paragraphs (1A) and (1B), the following sub-paragraphs shall respectively be substituted, namely:-

"(1A) Every construction agency engaged in the construction of buildings within a radius of hundred kilometers from a coal or lignite based thermal power plant shall use only fly ash based products for construction, such as: cement or concrete, fly ash bricks or blocks or tiles or clay fly ash bricks, blocks or tiles or cement fly ash bricks or bricks or blocks or similar products or a combination or aggregate of them, in every construction project.

(1B) The provisions of sub-paragraph (1A) shall be applicable to all construction agencies of Central or State or Local Government and private or public sector and it shall be the responsibility of the agencies either undertaking construction or approving the design or both to ensure compliance of the provisions of sub-paragraph (1A) and to submit annual returns to the concerned State Pollution Control Board or Pollution Control Committee, as applicable";

(c) after sub-paragraph (1B), the following sub-paragraph shall be inserted, namely:—

“(1C) Minimum fly ash content for building materials or products to qualify as fly ash based products” category shall be as given in the Table I below:

Table I

| Serial Number | Building Materials or Products  | Minimum % of fly ash by weight  |
|---------------|---|---|
| (1)           | (2)   | (3)   |
| 1.            | Fly ash bricks, blocks, tiles, etc. made with fly ash, lime, gypsum, sand, stone dust etc. (without clay).                          | 50% of total input materials  |
| 2.            | Paving blocks, paving tiles, checker tiles, mosaic tiles, roofing sheets, pre-cast elements, etc. wherein cement is used as binder. | Usage of PPC (IS-1489: Part-1) or PSC (IS-455) or 15% of OPC (IS-269/8112/12269) content. |
| 3.            | Cement.   | 15% of total raw materials  |
| 4.            | Clay based building materials such as bricks, blocks, tiles, etc.   | 25% of total raw materials.   |
| 5.            | Concrete, mortar and plaster.   | Usage of PPC (IS-1489: Part-1) or PSC (IS-455) or 15% of OPC (IS-269/8112/12269) content. |

(d) in sub-paragraph (2), for the brackets and number “(1)”, the brackets, number and letter “(1C)” shall be substituted and the number of sub-paragraph (2) shall be substituted by 1(D);

(e) in paragraph (2A), the paragraph 1(A) shall be substituted by 1(A) and 1(B) and the amended paragraph 2(A) is to be numbered as 1(E);

(f) for sub-paragraphs (3) and (3A), the following sub-paragraphs shall respectively be substituted, namely:—

“(3) In case of non-availability of fly ash from thermal power plants in sufficient quantities as certified by the said power plants, within 100 km of the site, the stipulation under sub-paragraph (1A) shall be suitably modified (waived or relaxed) by the concerned State Government or Union territory Government level monitoring committee mentioned elsewhere in this notification.

(3A) A decision on the application for manufacture of fly ash bricks, blocks and tiles and similar other fly ash based products shall be taken within thirty days from the date of receipt of the application by the concerned State Pollution Control Board or Pollution Control Committee.”;

(g) sub-paragraphs (3B), (3C) and (3D) shall be omitted;

(h) for sub-paragraphs (4) and (5), the following sub-paragraphs shall be substituted, namely:-

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“(4) Each coal or lignite based thermal power plant shall constitute a dispute settlement committee which shall include the General Manager of the thermal power plant and a representative of the relevant Construction and fly ash Brick Manufacturing Industry Association or Body, as the case may be and such a Committee shall ensure unhindered loading and transport of fly ash in an environmentally sound manner without any undue loss of time. Any unresolved dispute shall be dealt with by the concerned State or Union territory Government level monitoring committee mentioned elsewhere in this notification.

(5) No agency, person or organization shall, within a radius of hundred kilometers of a thermal power plant undertake construction or approve design for construction of roads or flyover embankments with top soil; the guidelines or specifications issued by the Indian Road Congress (IRC) as contained in IRC specification No. SP: 58 of 2001 as amended from time to time, regarding use of fly ash shall be followed and any deviation from this direction can only be agreed to on technical reasons if the same is approved by Chief Engineer (Design) or Engineer-in-Chief of the concerned agency or organisation or on production of a certificate of “fly ash not available” from the thermal power plant(s) (TPPs) located within hundred kilometers of the site of construction and this certificate shall be provided by the TPP within two working days from the date of receipt of a request for fly ash, if fly ash is not available”;

(i) in sub-paragraph (6), for the words “Voids created due to soil borrow area shall be filled up with ash with proper compaction and covered with topsoil kept separately as above and this would be done as an integral part of embankment project within the time schedule of the project”, the words “Voids created at soil borrow area shall be filled up with fly ash with proper compaction and covered with topsoil kept separately as above and this would be done as an integral part of embankment project” shall be substituted;

(j) for sub-paragraph (7), the following sub-paragraphs shall be substituted, namely:—

“(7) No agency, person or organisation shall within a radius of hundred kilometers of a coal or lignite based thermal power plant undertake or approve or allow reclamation and compaction of low-lying areas with soil; only fly ash shall be used for compaction and reclamation and they shall also ensure that such reclamation and compaction is done in accordance with the specifications and guidelines laid down by the authorities mentioned in sub-paragraph (1) of paragraph 3.

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(8)(i) No person or agency shall within fifty kilometers (by road) from coal or lignite based thermal power plants, undertake or approve stowing of mine without using at least 25% of fly ash on weight to weight basis, of the total stowing materials used and this shall be done under the guidance of the Director General of Mines Safety (DGMS);

Provided that such thermal power stations shall facilitate the availability of required quality and quantity of fly ash as may be decided by the expert committee referred in sub-paragraph (10) for this purpose.

(ii) No person or agency shall within fifty kilometers (by road) from coal or lignite based thermal power plants, undertake or approve without using at least 25% of fly ash on volume to volume basis of the total materials used for external dump of overburden and same percentage in upper benches of back filling of opencast mines and this shall be done under the guidance of the Director General of Mines Safety (DGMS);

Provided that such thermal power stations shall facilitate the availability of required quality and quantity of fly ash as may be decided by the expert committee referred in sub-paragraph (10) for this purpose.

(9) The provisions contained in clauses (i) and (ii) of sub-paragraph (8) shall be applicable to all mine agencies under Government, public and private sector and to mines of all minerals or metals or items and it shall be the responsibility of agencies either undertaking or approving the external dump of overburden, backfilling or stowing of mine or all these activities to ensure compliance of provisions contained in clauses (i) and (ii) of sub-paragraph (8) and to submit annual returns to the concerned State Pollution Control Board or Pollution Control Committee as applicable.

(10) The Ministry of Coal for this purpose shall constitute an expert committee comprising of representatives from Fly Ash Unit, Department of Science and Technology, Ministry of Science and Technology, Director General of Mines Safety (DGMS), Central Mine Planning and Design Institute Limited (CMPDIL), Ministry of Environment and Forests, Ministry of Power, Ministry of Mines and the Central Institute of Mining and Fuel Research (CIMFR), Dhanbad; the Committee shall also guide and advise the back filling or stowing in accordance with the provisions contained in sub-paragraphs (8) (i), 8 (ii) and (9), and specifications and guidelines laid down by the concerned authorities as mentioned in sub-paragraph (1) of paragraph 3.

(11) The concerned State Government or Union territory Government shall be the enforcing and monitoring authority for ensuring compliance of the provisions of sub-paragraphs (8) (i) and (8) (ii)”;

3. in the said notification, in paragraph 2,—

(a) for sub-paragraphs (1), (2) and (3), the following sub-paragraphs shall be substituted, namely:—

“(1) All coal or lignite based thermal power stations would be free to sell fly ash to the user agencies subject to the following conditions, namely:—

(i) the pond ash should be made available free of any charge on “as is where is basis” to manufacturers of bricks, blocks or tiles including clay fly ash product manufacturing unit(s), farmers, the Central and the State road construction agencies, Public Works Department, and to agencies engaged in backfilling or stowing of mines.

(ii) at least 20% of dry ESP fly ash shall be made available free of charge to units manufacturing fly ash or clay-fly ash bricks, blocks and tiles on a priority basis over other users and if the demand from such agencies falls short of 20% of quantity, the balance quantity can be sold or disposed of by the power station as may be possible;

Provided that the fly ash obtained from the thermal power station should be utilized only for the purpose for which it was obtained from the thermal power station or plant failing which no fly ash shall be made available to the defaulting users.

(2) All coal and, or lignite based thermal power stations and, or expansion units in operation before the date of this notification are to achieve the target of fly ash utilization as per the Table II given below:

**Table II**

| Serial Number | Percentage Utilization of Fly Ash  | Target Date  |
|---------------|------------------------------------|--|
| (1)           | (2)                                | (3)  |
| 1.            | At least 50% of fly ash generation | One year from the date of issue of this notification.    |
| 2.            | At least 60% of fly ash generation | Two years from the date of issue of this notification.   |
| 3.            | At least 75% of fly ash generation | Three years from the date of issue of this notification. |

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|    |                                    |   |
|----|------------------------------------|---|
| 4. | At least 90% of fly ash generation | Four years from the date of issue of this notification. |
| 5. | 100% fly ash generation            | Five years from the date of issue of this notification. |

The unutilised fly ash in relation to the target during a year, if any, shall be utilized within next two years in addition to the targets stipulated for those years and the balance unutilized fly ash accumulated during first five years (the difference between the generation and the utilization target) shall be utilized progressively over next five years in addition to 100% utilization of current generation of fly ash.

(3) New coal and, or lignite based thermal power stations and, or expansion units commissioned after this notification to achieve the target of fly ash utilization as per Table III given below:

Table III

| Serial Number | Fly ash utilization level          | Target date                                |
|---------------|------------------------------------|--|
| (1)           | (2)                                | (3)  |
| 1.            | At least 50% of fly ash generation | One year from the date of commissioning.   |
| 2.            | At least 70% of fly ash generation | Two years from the date of commissioning.  |
| 3.            | 90% of fly ash generation          | Three years from the date of commissioning |
| 4.            | 100% of fly ash generation         | Four years from the date of commissioning. |

The unutilised fly ash in relation to the target during a year, if any, shall be utilized within next two years in addition to the targets stipulated for these years and the balance unutilized fly ash accumulated during first four years (the difference between the generation and utilization target) shall be utilized progressively over next five years in addition to 100% utilization of current generation of fly ash.”;

(b) in sub-paragraph (4), for the words “six months”, the words “four months” shall be substituted;

(c) for sub-paragraph (6), the following sub-paragraphs shall be substituted, namely:—

“(6) The amount collected from sale of fly ash and fly ash based products by coal and/or lignite based thermal power stations or their subsidiary or sister concern unit, as applicable should be kept in a separate account head and shall be utilized only for development of infrastructure or facilities, promotion and facilitation activities for use of fly ash until 100 percent

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fly ash utilization level is achieved; there shall be no restriction on the use of fly ash as long as 100% fly ash utilization levels are maintained, the thermal power station would be free to utilize the amount collected for other development programmes also and in case, there is a reduction in the fly ash utilization levels in the subsequent year(s), the use of financial return from fly ash shall get restricted to development of infrastructure or facilities and promotion or facilitation activities for fly ash utilization until 100 percent fly ash utilisation level is again achieved and maintained.

(7) Annual implementation report (for the period 1<sup>st</sup> April to 31<sup>st</sup> March) providing information about the compliance of provisions in this notification shall be submitted by the 30<sup>th</sup> day of April, every year to the Central Pollution Control Board, concerned State Pollution Control Board or Committee and the concerned Regional Office of the Ministry of Environment and Forests by the coal or lignite based thermal power plants, and also be made a part of the annual report of the thermal power plant as well as thermal power plant wise information be provided in the annual report of thermal power producing agency owning more than one thermal power plant.”;

4. in the said notification, in paragraph 3,—

(a) in sub-paragraph (2), for the words “schedules of specifications and construction applications, including appropriate standards and codes of practice, within a period of four months from the publication of this notification”, the words “tender documents, schedules of specifications and construction applications including appropriate standards and codes of practice within a period of four months from the publication of this notification” shall be substituted;

(b) for sub-paragraph (2A), the following sub-paragraph shall be substituted, namely:—

“(2A) Building construction agencies both in public and private shall prescribe the use of fly ash and fly ash-based products in their respective tender documents, schedules of specifications and construction applications, including appropriate standards and codes of practice and make provisions for the use of fly ash and fly ash based bricks, blocks or tiles or aggregates of them in the schedule of approved materials and rates within a period of four months from the publication of this notification.”;

(c) for sub-paragraphs (2B) and (3), the following sub-paragraphs shall be substituted, namely:—

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“(2B) All agencies undertaking construction of roads or fly over bridges and reclamation and compaction of low lying areas, including Department of Road Transport and Highways (DORTH), National Highways Authority of India (NHAI), Central Public Works Department (CPWD), State Public Works Departments and other State Government Agencies, shall within a period of four months from the publication of this notification:-

- (a) make provisions in their tender documents, schedules of approved materials and rates as well as technical documents for implementation of this notification, including those relating to soil borrow area or pit as per sub-paragraph (6) of paragraph 1; and
  - (b) make necessary specifications or guidelines for road or fly over embankments that are not covered by the specifications laid down by the Indian Road Congress (IRC).
- (3) All local authorities shall specify in their respective tender documents, building bye-laws and regulations, the use of fly ash and fly ash-based products and construction techniques in building materials, roads embankments or for any usage with immediate effect.
- (4) The Central Electricity Authority and other approving agencies may permit the land area for emergency ash pond or fly ash storage area up to 50 hectares for a 500 MW unit, based on 45% ash content coal, or in the same proportion for units in other capacities taking into account the ash content in coal or lignite to be used.
- (5) All Financial institutions and agencies which fund construction activities shall include a clause in their loan or grant document for compliance of the provisions of this notification.
- (6) A Monitoring committee shall be constituted by the Central Government with Members from Ministry of Coal, Ministry of Mines, Ministry of Power, Central Pollution Control Board, Central Electricity Authority, Head Fly Ash Unit of Department of Science and Technology and Building Material Technology Promotion Council to monitor the implementation of the provisions of the notification and submit its recommendations or observations at least once in every six months to the Secretary, Ministry of Environment and Forests. Concerned Advisor or Joint Secretary in the Ministry of Environment and Forests will be the convener of this committee.

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(7) For the purpose of monitoring the implementation of the provisions of this notification the State Governments or Union territory Government shall constitute a Monitoring Committee within three months from the date of issue of this notification under the Chairmanship of Secretary, Department of Environment with representatives from Department of Power, Department of Mining, Road and Building Construction Department and State Pollution Control Board and this Committee would deal with any unresolved issue by Dispute Settlement Committee as prescribed in sub-paragraph (4) of paragraph 1, in addition to monitoring and facilitating implementation of this notification at the respective State Government or Union territory level and this Committee would also be empowered to suitably modify (waive or relax) the stipulation under sub-paragraph (1) in case of non-availability of fly ash in sufficient quantities from thermal power plant as certified by the said power plants and the Committee will meet at least once in every quarter.

[F. No. 9-8/2005-HSMD]

G. V. SUBRAHMANYAM, Scientist 'G'

**Foot Note** :—The principal notification was published in the Gazette of India, Part II, Section 3, Sub-section (ii) *vide* notification number S.O. 763(E), dated the 14th September, 1999 and was amended *vide* notification number S. O. 979(E), dated the 27th August, 2003.



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असाधारण

EXTRAORDINARY

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## पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय

### अधिसूचना

नई दिल्ली, 25 जनवरी, 2016

**का.आ. 254(अ).**—भारत सरकार, पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय की अधिसूचना सं. का.आ. 763(अ), तारीख 14 सितंबर, 1999 (जिसे इसमें इसके पश्चात् उक्त अधिसूचना कहा गया है) में कतिपय संशोधनों का प्रारूप, जिन्हें केन्द्रीय सरकार पर्यावरण (संरक्षण) नियम, 1986 के नियम 5 के उप-नियम (3) के खंड (घ) के साथ पठित पर्यावरण (संरक्षण) अधिनियम, 1986 ( 1986 का 29) की धारा 3 की उप-धारा (1) और उप-धारा (2) के खंड (v) के अंतर्गत करने का प्रस्ताव करती है, भारत के राजपत्र, असाधारण, भाग II, खंड 3, उप-खंड (ii) में अधिसूचना सं. का.आ. 1396(अ), तारीख 25 मई, 2015 द्वारा प्रकाशित किया गया था, जिसके द्वारा ऐसे सभी व्यक्तियों से, जिनके उनसे प्रभावित होने की संभावना थी, उस तारीख से, जिसको उक्त प्रारूप संशोधनों को अंतर्विष्ट करने वाली राजपत्र की प्रतियां जनता को उपलब्ध करा दी जाती हैं, साठ दिनों के अवसान से पूर्व आक्षेप और सुझाव आमंत्रित किए गए थे;

और उक्त राजपत्र की प्रतियां 25 मई, 2015 को जनता को उपलब्ध करा दी गई थी;

और उक्त प्रारूप अधिसूचना के संबंध में, ऐसे सभी व्यक्तियों से, जिनके उनसे प्रभावित होने की संभावना थी, प्राप्त सभी आक्षेपों और सुझावों पर केन्द्रीय सरकार द्वारा सम्यक् रूप से विचार कर लिया गया है;

अतः, अब, केन्द्रीय सरकार पर्यावरण (संरक्षण) नियम, 1986 के नियम 5 के उप-नियम (3) के खंड (घ) के साथ पठित पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 3 की उप-धारा (1) और उप-धारा (2) के खंड (v) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए उक्त अधिसूचना में निम्नलिखित संशोधन करती है, अर्थात् :-

1. उक्त अधिसूचना के पैरा 1 में-

- (क) उप पैरा 1(क) में "सौ किलोमीटर" शब्दों के स्थान पर "तीन सौ किलोमीटर" शब्द रखें जाएंगे;
- (ख) उप पैरा 3 में "100 कि.मी." अंकों और शब्दों के स्थान पर "तीन सौ किलोमीटर" शब्द रखें जाएंगे;
- (ग) उप पैरा 5 में "सौ किलोमीटर" शब्दों के स्थान पर "तीन सौ किलोमीटर" शब्द रखें जाएंगे;
- (घ) उप पैरा 7 में "सौ किलोमीटर" शब्दों के स्थान पर "तीन सौ किलोमीटर" शब्द रखें जाएंगे;

**2. उक्त अधिसूचना के पैरा 2 में:-****(क) उप पैरा (1) के पश्चात् निम्नलिखित परंतुक अंतःस्थापित किया जाएगा, अर्थात्:-**

“परंतु यह और कि शुष्क ईएसपी फ्लाई ऐश के 20 प्रतिशत का निःशुल्क प्रदाय करने का निर्बंधन उन तापीय विद्युत संयंत्रों पर लागू नहीं होगा, जो विहित रीति में सौ प्रतिशत फ्लाई ऐश का उपयोग करने में समर्थ हैं।”

**(ख) उप पैरा (7) के पश्चात् निम्नलिखित उप पैरा अंतःस्थापित किए जाएंगे, अर्थात् :-**

- “(8) प्रत्येक कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र (जिसके अंतर्गत कैपिटिव और/या सह उत्पादन केन्द्र भी हैं), अधिसूचना की तारीख से तीन मास के भीतर उनके पास उपलब्ध प्रत्येक किस्म की ऐश के स्टॉक के ब्यौरे अपनी वेबसाइट पर अपलोड करेगा और उसके पश्चात् मास में कम से कम एक बार स्टॉक की स्थिति को अद्यतन करेगा।
- (9) प्रत्येक कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र समर्पित शुष्क ऐश साइलस प्रतिष्ठापित करेगा, जिनके पास पृथक् पहुंच मार्ग होंगे, जिससे कि फ्लाई ऐश के परिदान को सुगम बनाया जा सके।
- (10) कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र से 100 किलोमीटर की परिधि के भीतर सड़क संनिर्माण परियोजनाओं या ऐश आधारित उत्पादों के संनिर्माण के लिए या कृषि संबंधित क्रियाकलापों में मृदा अनुकूलक के रूप में उपयोग के लिए ऐश के परिवहन की लागत ऐसे कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र द्वारा वहन की जाएगी और 100 किलोमीटर की परिधि से परे और 300 किलोमीटर की परिधि के भीतर ऐसे परिवहन की लागत को उपयोक्ता और कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र के बीच समान रूप से अंश भाजित की जाएगी।
- (11) कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र अपने परिसरों के भीतर या अपने परिसरों के आस-पास ऐश आधारित उत्पाद संनिर्माण सुविधाओं का संवर्धन करेंगे, उन्हें अपनाएंगे और उनकी स्थापना करेंगे (वित्तीय और अन्य सहबद्ध अवसंरचना)।
- (12) नगरों के आस-पास बने कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र ऐश आधारित उत्पाद विनिर्माण इकाइयों का संवर्धन करेंगे और उनकी स्थापना का समर्थन और उसमें सहायता करेंगे ताकि ईंटों और अन्य भवन संनिर्माण सामग्रियों की अपेक्षाओं की पूर्ति की जा सके और साथ ही परिवहन में कमी की जा सके।
- (13) यह सुनिश्चित करने के लिए कि किसी सड़क संनिर्माण का संविदाकार सड़क निर्माण में ऐश का उपयोग करता है, सड़क संनिर्माण के लिए संबद्ध प्राधिकारी संविदाकार को किए जाने वाले संदाय को तापीय विद्युत संयंत्र से ऐश के प्रदाय के प्रमाणीकरण के साथ जोड़ेगा।
- (14) कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र, 300 किलोमीटर की परिधि के भीतर प्रधानमंत्री ग्रामीण सड़क योजना के अधीन सड़क संनिर्माण परियोजनाओं और भवनों, सड़कों, बांधों और तटबंधों के संनिर्माण को अंतर्वलित करने वाले सरकार के आस्ति सृजन कार्यक्रमों के स्थल तक ऐश के परिवहन की संपूर्ण लागत का वहन करेगा।”।

**3. उक्त अधिसूचना के पैरा (2) के उप-पैरा (2क) को उप-पैरा (15) के रूप में पढ़ा जाए और उक्त उप-पैरा के अंत में निम्नलिखित उप-पैरा जोड़ा जाएगा, अर्थात् :-**

“और तटीय जिलों में अवस्थित कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र तटरेखा सुरक्षा उपायों का समर्थन करेंगे, उनके संनिर्माण में सहायता करेंगे या उसमें प्रत्यक्ष रूप से सम्मिलित होंगे।”

**4. उक्त अधिसूचना के पैरा 3 में उप-पैरा (7) के पश्चात् निम्नलिखित अंतःस्थापित किया जाएगा, अर्थात् :-**

- “(8) विभिन्न संनिर्माण परियोजनाओं का अनुमोदन करने वाले सभी राज्य प्राधिकारियों का यह उत्तरदायित्व होगा कि वे यह सुनिश्चित करें कि फ्लाई ऐश का उपयोग करने या फ्लाई ऐश आधारित उत्पादों के लिए तापीय विद्युत संयंत्रों और संनिर्माण अभिकरण या संविदाकारों के बीच परस्पर समझ ज्ञापन या कोई अन्य ठहराव किया जाता है।
- (9) राज्य प्राधिकारी, दस लाख या अधिक की जनसंख्या वाले नगरों की भवन निर्माण संबंधी उप विधियों का संशोधन करेंगे ताकि भार वहन करने वाली संरचनाओं हेतु तकनीकी अपेक्षाओं के अनुसार आवश्यक विनिर्देशों को ध्यान में रखते हुए ऐश आधारित ईंटों के आज्ञापक उपयोग को सुनिश्चित किया जा सके।

- (10) संबद्ध प्राधिकारी सभी सरकारी स्कीमों या कार्यक्रमों में, उदाहरणार्थ महात्मा गांधी राष्ट्रीय ग्रामीण रोजगार गारंटी अधिनियम, 2005 (मनरेगा), स्वच्छ भारत अभियान, शहरी और ग्रामीण आवासन स्कीम, जहां संनिर्मित क्षेत्र एक हजार वर्ग फुट से अधिक है और अवसंरचना संबंधी संनिर्माण में, जिसके अंतर्गत अभिहित औद्योगिक संपदाओं या पार्कों या विशेष आर्थिक जोनों में भवन निर्माण भी है, ऐश आधारित ईटों या उत्पादों के आज्ञापक उपयोग को सुनिश्चित करेंगे।
- (11) कृषि मंत्रालय कृषि क्रियाकलापों में ऐश के मृदा अनुकूलक के रूप में उपयोग का संवर्धन करने पर विचार कर सकेगा।”

**5. सभी संबद्ध प्राधिकारियों द्वारा उपरोक्त उपबंधों का अनुपालन करने की समयावधि 31 दिसंबर, 2017 है। कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र, उनके द्वारा उत्पादित फ्लाई ऐश के 100 प्रतिशत उपयोग के अतिरिक्त उपरोक्त उपबंधों का अनुपालन 31 दिसंबर, 2017 से पूर्व करेंगे।**

[फा. सं. 9-8/2005-एचएसएमडी]

विश्वनाथ सिन्हा, संयुक्त सचिव

**टिप्पणः-** मूल अधिसूचना भारत के राजपत्र, असाधारण, भाग II, खंड 3, उप-खंड (ii) में अधिसूचना सं. का.आ. 763(अ), तारीख 14 सितंबर, 1999 द्वारा प्रकाशित की गई थी और इसमें पश्चातवर्ती संशोधन अधिसूचना सं. का.आ. 979(अ), तारीख 27 अगस्त, 2003 और का.आ. 2804(अ), तारीख 3 नवंबर, 2009 द्वारा किए गए थे।

MINISTRY OF ENVIRONMENT, FORESTS AND CLIMATE CHANGE

NOTIFICATION

New Delhi, the 25th January, 2016

**S.O. 254(E).**—Whereas a draft of certain amendments to the Government of India in the Ministry of Environment, Forests and Climate Change number S.O. 763(E), dated the 14th September, 1999 (hereinafter referred to as the said notification) which the Central Government proposes to make under sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 (29 of 1986) read with clause (d) of sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, was published in the Gazette of India, Extraordinary, Part II, section 3, Sub-section (ii), vide S.O. 1396(E), dated the 25<sup>th</sup> May, 2015 inviting objections and suggestions from all persons likely to be affected thereby before the expiry of sixty days from the date on which copies of the Gazette containing the said draft amendments were made available to the public.

And, whereas copies of the said Gazette were made available to the public on 25th May, 2015;

And, whereas all the objections and suggestions received from all persons likely to be affected thereby in respect of the said draft notification have been duly considered by the Central Government;

Now, therefore, in exercise of the powers conferred by sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 (29 of 1986) read with clause (d) of sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, the Central Government hereby makes the following amendments to the said notification, namely: —

1. In the said notification, in paragraph 1,-

- in sub-paragraph 1(A), for the words “hundred kilometers”, the words “three hundred kilometers” shall be substituted;
- in sub-paragraph (3), for the figures and letters “100 km”, the words “three hundred kilometers” shall be substituted;
- in sub-paragraph (5), for the words “hundred Kilometers”, the words “three hundred Kilometers” shall be substituted;
- in sub-paragraph (7), for the words “hundred Kilometers”, the words “three hundred Kilometers” shall be substituted.

**2. In the said notification, in paragraph 2:-****(a) after sub-paragraph (1), the following proviso shall be inserted, namely:-**

“provided further that the restriction to provide 20 % of dry ESP fly ash free of cost shall not apply to those thermal power plants which are able to utilise 100 % fly ash in the prescribed manner.”

**(b) after sub-paragraph (7), the following sub-paragraphs shall be inserted, namely:-**

- “(8) Every coal or lignite based thermal power plants (including captive and or co-generating stations) shall, within three months from the date of notification, upload on their website the details of stock of each type of ash available with them and thereafter shall update the stock position at least once a Month.
- (9) Every coal or lignite based thermal power plants shall install dedicated dry ash silos having separate access roads so as to ease the delivery of fly ash.
- (10) The cost of transportation of ash for road construction projects or for manufacturing of ash based products or use as soil conditioner in agriculture activity within a radius of hundred kilometers from a coal or lignite based thermal power plant shall be borne by such coal or lignite based thermal power plant and the cost of transportation beyond the radius of hundred kilometers and up to three hundred kilometers shall be shared equally between the user and the coal or lignite based thermal power plant.
- (11) The coal or lignite based thermal power plants shall promote, adopt and set up (financial and other associated infrastructure) the ash based product manufacturing facilities within their premises or in the vicinity of their premises so as to reduce the transportation of ash.
- (12) The coal or lignite based thermal power plants in the vicinity of the cities shall promote, support and assist in setting up of ash based product manufacturing units so as to meet the requirements of bricks and other building construction materials and also to reduce the transportation.
- (13) To ensure that the contractor of road construction utilizes the ash in the road, the Authority concerned for road construction shall link the payment of contractor with the certification of ash supply from the thermal power plants.
- (14) The coal or lignite based thermal power plants shall within a radius of three hundred kilometers bear the entire cost of transportation of ash to the site of road construction projects under Pradhan Mantri Gramin Sadak Yojna and asset creation programmes of the Government involving construction of buildings, road, dams and embankments”.

**3. In the said notification, in paragraph 2, sub-paragraph (2A) be read as sub-paragraph (15) and at the end of the said sub-paragraph, the following sub-paragraph shall be added, namely:-**

“and the coal or lignite based thermal power plants located in coastal districts shall support, assist or directly engage into construction of shore line protection measures.”

**4. In the said notification, in paragraph 3, after sub-paragraph (7), the following shall be inserted, namely:-**

- “(8) It shall be the responsibility of all State Authorities approving various construction projects to ensure that Memorandum of Understanding or any other arrangement for using fly ash or fly ash based products is made between the thermal power plants and the construction agency or contractors.
- (9) The State Authorities shall amend Building Bye Laws of the cities having population One million or more so as to ensure the mandatory use of ash based bricks keeping in view the specifications necessary as per technical requirements for load bearing structures.
- (10) The concerned Authority shall ensure mandatory use of ash based bricks or products in all Government Scheme or programmes e.g. Mahatma Gandhi National Rural Employment Guarantee Act, 2005 (MNREGA), SWACHH BHARAT ABIYAN, Urban and Rural Housing Scheme, where built up area is more than 1000 square feet and in infrastructure construction including buildings in designated industrial Estates or Parks or Special Economic Zone.

(11) The Ministry of Agriculture may consider the promotion of ash utilisation in agriculture as soil conditioner.”

- 5. The time period to comply with the above provisions by all concerned authorities is 31<sup>st</sup> December, 2017. The coal or lignite based thermal power plants shall comply with the above provision in addition to 100 % utilization of fly ash generated by them before 31<sup>st</sup> December, 2017.**

[F. No. 9-8/2005-HSMD]

BISHWANATH SINHA, Jt. Secy.

**Note:-** The principal notification was published in the Gazette of India, Extraordinary, Part II, section 3, Sub-section (ii) *vide* notification S.O. 763(E), dated the 14<sup>th</sup> September, 1999 and was subsequently amended *vide* notification S.O. 979(E), dated the 27<sup>th</sup> August, 2003 and S.O. 2804(E), dated the 3<sup>rd</sup> November, 2009.



# भारत का राजपत्र The Gazette of India

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पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय

अधिसूचना

नई दिल्ली, 31 दिसम्बर, 2021

**का.आ. 5481(अ).**—केन्द्रीय सरकार ने भारत सरकार के तत्कालीन पर्यावरण और वन मंत्रालय की अधिसूचना सं. का.आ. 763 (अ) तारीख 14 सितम्बर, 1999 द्वारा कोयला या लिग्नाइट आधारित ताप विद्युत संयंत्रों से तीन सौ किलोमीटर के विनिर्दिष्ट व्यास के भीतर ईंटों के विनिर्माण के लिए उपजाऊ मिट्टी के उत्खनन को प्रतिबंधित करने के लिए और भवन निर्माण सामग्री के विनिर्माण में और संनिर्माण क्रियाकलाप में फ्लाई-राख के उपयोग को बढ़ावा देने के लिए निदेश जारी किए हैं;

और, प्रदूषणकर्ता भुगतान सिद्धांत (पीपीपी) के आधार पर, ऐसा करके कोयला या लिग्नाइट आधारित ताप विद्युत संयंत्रों द्वारा फ्लाई-राख का 100 प्रतिशत उपयोग सुनिश्चित करते हुए और फ्लाई-राख प्रबंधन प्रणाली की संधारणीयता के लिए पूर्वोक्त अधिसूचना को और अधिक प्रभावकारी ढंग से कार्यान्वित करने हेतु, केंद्रीय सरकार ने मौजूदा अधिसूचना की समीक्षा की;

और प्रदूषणकर्ता भुगतान सिद्धांत के आधार पर पर्यावरणीय प्रतिकर निर्धारित किए जाने की आवश्यकता है;

और, विनिर्माण को बढ़ावा देकर तथा निर्माण कार्य के क्षेत्र में राख आधारित उत्पादों तथा भवन निर्माण सामग्रियों के प्रयोग को अनिवार्य करके उपजाऊ मिट्टी को संरक्षित करने की आवश्यकता है;

और, सड़क बनाने, सड़क एवं फ्लाई ओवर के रेलिंग बनाने, तटरेखा की सुरक्षा का उपाय करने, अनुमोदित परियोजनाओं के निचले क्षेत्रों को भरने, खनित स्थलों को फिर से भरने में मिट्टी की सामग्रियों से भरने के विकल्प के रूप में राख उपयोग को बढ़ावा देकर उपजाऊ मिट्टी और प्राकृतिक संसाधनों को संरक्षित करने की आवश्यकता है;

और, पर्यावरण को सुरक्षित करना तथा कोयला अथवा लिग्नाइट आधारित ताप विद्युत संयंत्रों से सृजित फ्लाई राख के निक्षेपण तथा निपटान की रोकथाम करना आवश्यक है;

और, उक्त अधिसूचना में जो 'राख' शब्द का प्रयोग किया गया है उसमें कोयला या लिग्नाइट आधारित ताप विद्युत संयंत्रों से सृजित फ्लाई-राख और बॉटम-राख दोनों शामिल हैं;

और, केंद्रीय सरकार प्रदूषणकर्ता भुगतान सिद्धांत के आधार पर, पर्यावरणीय प्रतिकर की प्रणाली सहित राख के उपयोग के लिए एक व्यापक ढांचा लाना चाहती है;

अतः पर्यावरण (संरक्षण) नियम, 1986 के नियम (5) के उप-नियम (3) के खंड (घ) के साथ पठित पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 3 की उप-धारा (1) और उप-धारा (2) के खंड (v) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, भारत सरकार के पर्यावरण एवं वन मंत्रालय की अधिसूचना जो का.आ. 763 (अ) तारीख 14 सितम्बर, 1999 द्वारा भारत के राजपत्र, असाधारण भाग II, खंड 3, उप खंड (i) में प्रकाशित का अधिक्रमण करते हुए, कोयला या लिग्नाइट आधारित ताप विद्युत संयंत्रों द्वारा राख के उपयोग के संबंध में प्रारूप अधिसूचना जो सा.का.नि. 285 (अ) तारीख 22 अप्रैल, 2021 द्वारा भारत के राजपत्र, असाधारण, भाग-2, धारा 3, उप धारा (i) में प्रकाशित की गई थी जिसमें उन सभी व्यक्तियों से जिनका इससे प्रभावित होना सामान्य है उस तारीख से, जिसको उक्त प्रारूप उपबंधों की शासकीय राजपत्र में अंतर्विष्ट प्रतियां जनता को उपलब्ध करा दी गई थी, साठ दिनों के अवसान से पूर्व आक्षेप और सुझाव आमंत्रित किए गए थे।

और उक्त प्रारूप अधिसूचना के संबंध में उससे संभावित तौर पर प्रभावित होने वाले सभी व्यक्तियों से प्राप्त आक्षेपों और सुझावों पर केंद्रीय सरकार द्वारा सम्यक रूप से विचार कर लिया गया है;

अतः पर्यावरण (संरक्षण) नियम, 1986 के नियम (5) के उप-नियम (3) के खंड (घ) के साथ पठित पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 3 की उप-धारा (1) और उप-धारा (2) के खंड (v) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए और अधिसूचना का.आ. 763 (अ) तारीख 14 सितम्बर, 1999 का उन बातों के सिवाय अधिकांत करते हुए जिन्हें ऐसे अधिक्रमण से पूर्व किया गया है या करने का लोप किया गया है, केन्द्रीय सरकार कोयलों या लिग्नाइट आधारित ताप विद्युत संयंत्रों से राख के उपयोग के संबंध में निम्नलिखित अधिसूचना जारी करती है, जो इस अधिसूचना के प्रकाशन की तिथि से प्रवृत्त होगी, अर्थात्

**क. फ्लाई-राख और बॉटम-राख का निपटान करने हेतु ताप विद्युत संयंत्रों (टीपीपी) के उत्तरदायित्व.-**

(1) प्रत्येक कोयला या लिग्नाइट आधारित ताप विद्युत संयंत्र (जिनमें कैप्टिव और/या सह-उत्पादन केंद्र शामिल हैं या दोनों) की यह प्राथमिक जिम्मेदारी होगी कि वह अपने द्वारा सृजित राख (फ्लाई-राख और बॉटम-राख) का उप पैरा (2) में दिए गए पारि-अनुकूल तरीके से 100 प्रतिशत उपयोग सुनिश्चित करे;

(2) कोयला या लिग्नाइट आधारित ताप विद्युत संयंत्रों से सृजित राख का उपयोग केवल निम्नलिखित पारि-अनुकूल प्रयोजनों के लिए किया जाएगा, अर्थात्:-

- (i) फ्लाई राख पर आधारित उत्पाद अर्थात्: ईट ब्लॉक टाइल, फाइबर सीमेंट शीट, पाइप, बोर्ड, पैनल का विनिर्माण;
- (ii) सीमेंट विनिर्माण, रेडी-मिक्स कंक्रीट;

- (iii) सड़क निर्माण और फ्लाई-ओवर के रेलिंग का निर्माण, राख और जिओ-पॉलीमर आधारित निर्माण सामग्री;
- (iv) बांध का निर्माण;
- (v) निचले क्षेत्र को भरना;
- (vi) खनन कार्य से रिक्त हुए स्थान को भरना;
- (vii) सिंटेड या शीत-बद्ध राख संचय का विनिर्माण;
- (viii) मृदा परीक्षण के आधार पर नियंत्रित तरीके से कृषि;
- (ix) तटीय जिलों में तटरेखा संरक्षण संरचनाओं का निर्माण;
- (x) अन्य देशों को राख का निर्यात;
- (xi) समय-समय पर यथाधिसूचित किसी अन्य पारि-अनुकूल प्रयोजन के लिए।
- (3) अध्यक्ष, केंद्रीय प्रदूषण नियंत्रण बोर्ड (सीपीसीबी) की अध्यक्षता में एक समिति गठित की जाएगी जिसमें पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय (एमओईएफसीसी), विद्युत मंत्रालय, खान मंत्रालय, कोयला मंत्रालय, सड़क परिवहन और राजमार्ग मंत्रालय, कृषि अनुसंधान एवं शिक्षा विभाग, सड़क कांग्रेस संस्थान तथा राष्ट्रीय सीमेंट एवं भवन सामग्री परिषद के प्रतिनिधियों को सदस्यों के रूप में शामिल किया जाएगा, जिसका प्रयोजन राख के उपयोग के पारि-अनुकूल तौर-तरीकों की जांच करना, उनकी समीक्षा एवं अनुशंसा करना तथा प्रौद्योगिकीय विकासों तथा पणधारी से प्राप्त अनुरोधों के आधार पर उप-पैरा (2) में यथोल्लिखित ऐसे तौर-तरीकों की सूची में समिति द्वारा सुझाए गए तौर-तरीकों को शामिल करना या किसी तौर-तरीके को सूची से हटाना या उसमें संशोधन करना है। जब भी इस प्रयोजन के लिए अपेक्षित हो, यह समिति राज्य प्रदूषण नियंत्रण बोर्ड या प्रदूषण नियंत्रण समिति, ताप विद्युत संयंत्र और खानों के प्रचालकों को आमंत्रित कर सकती है। इस समिति सिफारिश के आधार पर, पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय ऐसे पारि-अनुकूल प्रयोजन प्रकाशित करेगा।
- (4) प्रत्येक कोयला या लिग्नाइट आधारित ताप विद्युत संयंत्र उस वर्ष के दौरान सृजित राख (फ्लाई-राख और बॉटम-राख) का 100 प्रतिशत उपयोग करने हेतु उत्तरदायी होगा; तथापि, किसी भी स्थिति में, किसी वर्ष में राख का उपयोग 80 प्रतिशत से नीचे नहीं होगा और साथ ही, उस ताप विद्युत संयंत्र को तीन वर्ष की अवधि में 100 प्रतिशत औसत राख के उपयोग का लक्ष्य प्राप्त करना होगा :

परंतु, यह और कि पहली बार के लिए लागू तीन वर्ष के चक्र को ऐसे ताप विद्युत संयंत्रों, जहां राख का उपयोग 60-80 प्रतिशत के बीच होता है, एक वर्ष के लिए और ऐसे संयंत्रों, जहां राख का उपयोग 60 प्रतिशत से कम है, दो वर्ष के लिए बढ़ाया जा सकता है, और राख के उपयोग की प्रतिशतता की गणना के प्रयोजन के लिए वर्ष 2021-2022 में उपयोग की प्रतिशत प्रमात्रा को नीचे दी गई तालिका के अनुसार ध्यान में रखा जाएगा:

| तापीय विद्युत संयंत्रों के उपयोग की प्रतिशतता | 100 प्रतिशत उपयोगिता प्राप्त करने के लिए प्रथम अनुपालन चक्र | 100 प्रतिशत उपयोगिता प्राप्त करने के लिए द्वितीय अनुपालन चक्र |
|---|---|---|
| >80 प्रतिशत                                   | 3 वर्ष  | 3 वर्ष  |
| 60-80 प्रतिशत                                 | 4 वर्ष  | 3 वर्ष  |
| <60 प्रतिशत                                   | 5 वर्ष  | 3 वर्ष  |

परन्तु, ताप विद्युत संयंत्रों के लिए 80 प्रतिशत न्यूनतम उपयोग प्रतिशतता, क्रमशः 60-80 प्रतिशत और <60 प्रतिशत की उपयोगिता की श्रेणी के तहत आने वाले ताप विद्युत संयंत्रों के लिए प्रथम अनुपालन चक्र के पहले वर्ष और पहले दो वर्षों पर लागू नहीं होगी।

परन्तु, अनुपालन चक्र के अंतिम वर्ष में सृजित 20 प्रतिशत राख को अगले चक्र में भी ले जाया जाएगा जिसका उपयोग उस अनुपालन चक्र के दौरान सृजित राख के साथ अगले तीन वर्षों में किया जाएगा।

- (5) अप्रयुक्त संचित राख अर्थात् लीगेसी राख, जिसका इस अधिसूचना के प्रकाशन से पहले भंडारण किया गया है, को ताप विद्युत संयंत्र (टीपीपी) द्वारा इस रीति से क्रमिक रूप से उपयोग में लाया जाएगा, कि लीगेसी राख को इस अधिसूचना के प्रकाशन की तिथि से दस वर्षों के भीतर पूरी तरह उपयोग कर लिया जाएगा और यह उस विशिष्ट वर्ष के चालू संचालनों के माध्यम से राख उत्सर्जन के लिए निर्धारित उपयोग लक्ष्यों से अतिरिक्त होगा।

परन्तु, निम्नलिखित प्रतिशतताओं में यथा उल्लिखित लीगेसी राख की न्यूनतम मात्रा का उपयोग तास्थानी वर्ष के दौरान कर लिया जाएगा और लीगेसी राख की न्यूनतम मात्रा की ताप विद्युत संयंत्र की संस्थापित क्षमता के अनुसार वार्षिक राख उत्सर्जन के आधार पर की जानी है।

| प्रकाशन की तिथि से वर्ष                           | पहला                   | दूसरा                  | तीसरा-दसवां         |
|---|------------------------|------------------------|---------------------|
| लीगेसी राख का उपयोग<br>(वार्षिक राख की प्रतिशतता) | कम से कम 20<br>प्रतिशत | कम से कम 35<br>प्रतिशत | कम से कम 50 प्रतिशत |

परन्तु, यह और कि लीगेसी राख का उपयोग वहां अपेक्षित नहीं है, जहां राख के तालाब या डाइक स्थिर हो गए हैं और हरित पट्टी के निर्माण या पौध रोपण से पुनरुद्धार किया गया है और संबंधित राज्य प्रदूषण नियंत्रण बोर्ड इस संबंध में प्रमाणित करेगा। किसी राख तालाब या डाइक के स्थिरीकरण और भूमि-उद्धार का कार्य, जिसमें केन्द्रीय प्रदूषण नियंत्रण बोर्ड या राज्य प्रदूषण नियंत्रण बोर्ड द्वारा प्रमाणन शामिल है, इस अधिसूचना के प्रकाशन की तारीख से एक वर्ष के भीतर किया जाएगा। अन्य सभी राख के कुंड या डाइक में शेष बचे राख का उपयोग ऊपर उल्लिखित समय-सीमाओं के अनुसार क्रमिक रूप से किया जाएगा।

**टिप्पण:** राख के उपयोग के लक्ष्यों को हासिल करने के लिए उप पैरा (4) और (5) के अधीन दायित्व 01 अप्रैल, 2022 की तारीख से लागू होंगे।

- (6) किसी भी नए तापीय विद्युत संयंत्र (टीपीपी) में 0.1 हेक्टेयर प्रति मेगावाट (एमडब्ल्यू) क्षेत्रफल के साथ आपातकालीन या अस्थायी राख कुंड की अनुमति दी जा सकती है। राख के तालाब या डाइकों का तकनीकी विनिर्देश, केन्द्रीय विद्युत प्राधिकरण (सीईए) के परामर्श से केन्द्रीय प्रदूषण नियंत्रण बोर्ड द्वारा बनाए गए दिशानिर्देशों के अनुसार होगा और ये दिशानिर्देश राख के कुंड या डाइक के संबंध में इसकी सुरक्षा, पर्यावरणीय प्रदूषण, उपलब्ध प्रमात्रा, निपटान का तरीका, निपटान में जल की खपत या संरक्षण, राख जल पुनर्चक्रण और ग्रीन बेल्ट आदि के वार्षिक प्रमाणन के लिए कार्यविधि भी निर्धारित करेंगे और इस अधिसूचना के प्रकाशन की तारीख से तीन महीनों के भीतर प्रस्तुत किए जाएंगे।
- (7) प्रत्येक कोयला या लिग्नाइट आधारित ताप विद्युत संयंत्र यह सुनिश्चित करेगा कि राख की लदाई, उतराई, ढुलाई, भंडारण और निपटान पर्यावरणीय दृष्टि से अनुकूल रीति से किया गया है और वायु और जल प्रदूषण की रोकथाम के लिए सभी ऐहितयात किए गए हैं और इस संबंध में स्थिति की सूचना इस अधिसूचना में संलग्न अनुबंध में संबंधित राज्य प्रदूषण नियंत्रण बोर्ड (एसपीसीबी) या प्रदूषण नियंत्रण समिति (पीसीसी) को दी जाएगी।
- (8) प्रत्येक कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र, संस्थापित क्षमता पर आधारित राख के कम से कम 16 घंटों के भंडारण के लिए समर्पित शुष्क फ्लाई राख साइलोस प्रतिष्ठापित करेगा, जिनके पास पृथक पहुंच मार्ग होंगे, जिससे कि राख पहुंचाने के कार्य को सुगम बनाया जा सके। इसकी सूचना संबंधित राज्य प्रदूषण नियंत्रण बोर्ड (एसपीसीबी) या प्रदूषण नियंत्रण समिति (पीसीसी) को उपाबंध में दी जाएगी और केन्द्रीय प्रदूषण नियंत्रण

बोर्ड (सीपीसीबी) या राज्य केन्द्रीय प्रदूषण नियंत्रण बोर्ड (एसपीसीबी) या प्रदूषण नियंत्रण समिति द्वारा समय-समय पर निरीक्षण किया जाएगा।

- (9) प्रत्येक कोयला या लिग्नाईट आधारित तापीय विद्युत संयंत्र (जिसके अंतर्गत कैप्टिव या सह उत्पादन केन्द्र भी है या दोनों), वास्तविक उपयोगकर्ता (उपयोगकर्ताओं) के हित के लिए केन्द्रीय प्रदूषण नियंत्रण बोर्ड के वेब पोर्टल या मोबाईल फोन एप्प का लिंक उपलब्ध कराकर ताप विद्युत संयंत्र के पास राख की उपलब्धता के वास्तविक आंकड़े प्रदान करेगा।
- (10) राख के 100 प्रतिशत उपयोग का वैधानिक दायित्व, जहां भी लागू हो, विधि में बदलाव के रूप में माना जाएगा।

**ख. राख के उपयोग के प्रयोजनार्थ, उत्तरवर्ती उप पैराग्राफ लागू होंगे :-**

- (1) ऐसे सभी अभिकरण (सरकारी, अर्द्धसरकारी और निजी), जो सड़क बिछाने, सड़क और फ्लाई ओवर के किनारों, तटीय जिलों में तटरेखा की सुरक्षा संरचनाओं और लिग्नाईट या कोयला आधारित ताप विद्युत संयंत्र से 300 किमी के भीतर बांधों जैसे निर्माण संबंधी कार्यकलापों में लगे हुए हैं, इन कार्यकलापों में अनिवार्य रूप से राख का उपयोग करेंगे :

परंतु इसको परियोजना स्थल पर निशुल्क पहुंचाया जाए और परिवहन लागत, ऐसे कोयला या लिग्नाईट आधारित ताप विद्युत संयंत्रों द्वारा वहन की जाए।

परंतु यह और कि ताप विद्युत संयंत्र पारस्परिक सहमत हुई शर्तों के अनुसार राख की लागत और परिवहन के लिए शुल्क ले सकता है उस मामले में जहां ताप विद्युत संयंत्र अन्य माध्यम से राख का निपटान करने में समर्थ है और ये अभिकरण इसके लिए प्रार्थना कर सकते हैं और बिना लागत और बिना परिवहन शुल्क के राख उपलब्ध कराने के प्रावधान तभी लागू होंगे यदि उसके लिए ताप विद्युत संयंत्र उस निर्माण अभिकरण को नोटिस जारी करता है।

- (2) उक्त कार्यकलापों में राख का उपयोग भारतीय मानक ब्यूरो, भारतीय रोड कांग्रेस, केन्द्रीय भवन अनुसंधान संस्थान, रूडकी, केन्द्रीय सड़क अनुसंधान संस्थान, दिल्ली, केन्द्रीय लोक निर्माण विभाग, राज्य लोक निर्माण विभागों और अन्य केन्द्रीय और राज्य सरकार के अभिकरणों द्वारा निर्धारित किए गए विनिर्देशों और दिशानिर्देशों के अनुसार किया जाएगा।
- (3) तापीय विद्युत संयंत्र की 300 किलोमीटर की परिधि के भीतर अवस्थित सभी खानों के लिए विस्तारित उत्पादक उत्तरदायित्व (ईपीआर) के तहत खुली आवर्त खानों में राख का पृष्ठ भंडारण करना या अधिक भार के ढेरों के साथ राख का मिश्रण करना बाध्यकारी होगा। सभी खान के स्वामी या प्रचालक (चाहे सरकारी, सार्वजनिक और निजी क्षेत्र के हो) कोयला या लिग्नाईट आधारित तापीय विद्युत संयंत्रों से तीन सौ किलोमीटर (सड़क द्वारा) के भीतर, महानिदेशक, खान सुरक्षा (डीजीएमएस) के दिशानिर्देशों के अनुसार ओवर बर्डन के बाह्य निक्षेप खान की बैकफिलिंग अथवा स्टोर्विंग (प्रचालित या छोड़ी गई खानों, जैसा भी मामला हो) के लिए उपयोग की गई सामग्रियों के भार-दर-भार के आधार पर कम से कम 25 प्रतिशत राख को मिश्रित करने के लिए उपाय करेंगे :

परंतु ऐसे तापीय विद्युत केन्द्र निःशुल्क राख प्रदान करके और परिवहन की लागत को वहन करके या पारस्परिक सहमत हुई शर्तों पर लिए गए निर्णय के अनुसार लागत या परिवहन व्यवस्था करके राख की अपेक्षित मात्रा की उपलब्धता को सुकर बनायेंगे और खानों के खाली स्थानों और ढेरों में अधिकभार के साथ राख को मिश्रित करना, सृजित अधिभार के लिए इस अधिसूचना के प्रकाशन की तिथि से लागू होगा और उक्त कार्यकलापों में राख का उपयोग, केन्द्रीय प्रदूषण नियंत्रण बोर्ड, महानिदेशक खान सुरक्षा और भारतीय खदान ब्यूरो द्वारा निर्धारित दिशानिर्देशों के अनुसार किया जाएगा।

**स्पष्टीकरण .-** इस उप-पैरा के प्रयोजन के लिए यह भी स्पष्ट किया जाता है कि लागत मुक्त राख और निःशुल्क परिवहन के उपबंध केवल तभी लागू होंगे यदि ताप विद्युत संयंत्र इसके लिए खान मालिक को नोटिस देते हैं और अधिभार वाले ढेर के साथ मिश्रित करने और खान में खाली स्थान को भरने के लिए राख के 25 प्रतिशत हिस्से के उपयोग का अधिदेश तब तक लागू नहीं होगा जब तक कि ताप विद्युत संयंत्र द्वारा खान मालिक को नोटिस न दिया गया हो।

- (5) (i) सभी खान मालिकों को खान में खाली स्थानों में राख को समायोजित करने के लिए खान बंद योजना (प्रगामी और अंतिम) तैयार करनी होगी और खान में खाली स्थानों में राख के निपटान और अधिभार वाले ढेर के साथ राख को मिश्रित करने के लिए खान योजनाओं को संबंधित प्राधिकारी अनुमोदित करेगा। पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय द्वारा ताप विद्युत संयंत्रों और कोयला खदानों की पर्यावरणीय मंजूरी की अपेक्षा से छूट देने के साथ-साथ ऐसे निपटान के लिए अपनाए जाने वाले दिशानिर्देशों के संबंध में तारीख 28 अगस्त, 2019 को दिशानिर्देश जारी किए गए।
- (ii) मंत्रालय, केन्द्रीय प्रदूषण नियंत्रण बोर्ड, महानिदेशक, खान सुरक्षा (डीजीएमएस) और भारतीय खान ब्यूरो (आईबीएम) के साथ परामर्श करके, खानों में खाली स्थानों में राख के निपटान करने तथा अधिभार वाले ढेरों में इसे मिश्रित करना सुगम बनाने के लिए समय-समय पर आगे भी दिशानिर्देश जारी कर सकता है और यह खान मालिकों की जिम्मेदारी होगी कि वे ऐसी खानों को अभिज्ञात करने की तिथि से एक वर्ष के भीतर विभिन्न विनियामक प्राधिकरणों द्वारा जारी की गई अनुमतियों में आवश्यक संशोधन या परिवर्तन प्राप्त करेंगे।
- (6) (i) पर्यावरणीय प्रदूषण के संदर्भ में सुरक्षा, व्यवहार्यता (आर्थिक व्यवहार्यता नहीं) और पहलुओं की जांच सहित राख से खान में खाली स्थान को वापस भरने/अधिभार वाले ढेर के साथ राख को मिश्रित करने के लिए खानों की पहचान करने के लिए पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय, विद्युत मंत्रालय, खान मंत्रालय, कोयला मंत्रालय, महानिदेशक खान सुरक्षा और भारतीय खान ब्यूरो से प्रतिनिधियों को शामिल करते हुए अध्यक्ष, केन्द्रीय प्रदूषण नियंत्रण बोर्ड (सीपीसीबी) की अध्यक्षता में एक समिति का गठन किया जाएगा और यह समिति पणधारी मंत्रालयों या विभागों के लिए अभिज्ञात खानों (भूमिगत और खुली, दोनों) के संबंध में तैयार की गई तिमाही रिपोर्टों को अद्यतन करेगी और यह समिति, इस अधिसूचना के प्रकाशन के तुरंत पश्चात उपयुक्त खानों की पहचान करना आरंभ करेगी।
- (ii) ताप विद्युत संयंत्र या खानें, उपरोक्त अनुसार अधिदेशित उपयोग लक्ष्यों को पूरा करने के लिए उपर्युक्त समिति द्वारा पहचान किए जाने तक राख के निपटान हेतु प्रतीक्षा नहीं करेंगी।
- (7) राख से निचले क्षेत्र को भरने का कार्य, अनुमोदित परियोजनाओं के लिए राज्य प्रदूषण नियंत्रण बोर्ड की पूर्व अनुमति से और केन्द्रीय प्रदूषण नियंत्रण बोर्ड द्वारा निर्धारित दिशा-निर्देशों के अनुसार किया जाएगा और राज्य प्रदूषण नियंत्रण बोर्ड या प्रदूषण नियंत्रण समिति द्वारा अनुमोदित स्थलों, अवस्थान, क्षेत्र और अनुमत मात्रा को अपनी वेबसाइट पर प्रतिवर्ष प्रकाशित किया जाएगा।
- (8) केन्द्रीय प्रदूषण नियंत्रण बोर्ड, संगत पणधारी के साथ मिलकर, राज्य प्रदूषण नियंत्रण बोर्ड (एसपीसीबी) या प्रदूषण नियंत्रण समिति (पीसीसी) द्वारा अनुमति प्रदान करने के लिए समयबद्ध ऑनलाइन आवेदन प्रक्रिया प्रस्तुत करने के साथ-साथ इस अधिसूचना के अधीन परिकल्पित सभी प्रकार के कार्यकलापों के लिए एक वर्ष के भीतर दिशानिर्देश प्रस्तुत करेगा।
- (9) कोयला या लिग्नाइट आधारित तापीय ऊर्जा संयंत्र से तीन सौ किलोमीटर के दायरे में स्थित सभी भवन निर्माण परियोजनाएं (केंद्रीय, राज्य और स्थानीय प्राधिकरणों सरकारी उपक्रमों, अन्य सरकारी अभिकरणों तथा सभी निजी अभिकरणों) राख की ईटों, टाईल्स, धातुमल राख अथवा अन्य राख आधारित उत्पादों का उपयोग करेंगी बशर्ते कि वे वैकल्पिक उत्पादों की कीमत से अधिक कीमत पर उपलब्ध न हो।
- (10) राख आधारित उत्पादों के विनिर्माण और ऐसे उत्पादों में राख के उपयोग में भारतीय मानक ब्यूरो, भारतीय सड़क कांग्रेस और केन्द्रीय प्रदूषण नियंत्रण बोर्ड द्वारा निर्धारित विनिर्देशों और दिशानिर्देशों की अनुपालना होगी।

**ग. गैर-अनुपालन के लिए पर्यावरणीय प्रतिकर .-**

- (1) तीन वर्ष के चक्र के प्रथम दो वर्षों में, यदि कोयला या लिग्नाइट आधारित तापीय ऊर्जा संयंत्र (कैप्टिव और/ या सह-उत्पादक स्टेशनों या दोनों सहित) ने कम-से-कम 80 प्रतिशत राख (फ्लाई-राख और बॉटम-राख) उपयोग नहीं की है तो ऐसे गैर-अनुपालन ताप विद्युत संयंत्रों पर प्रस्तुत की गई वार्षिक रिपोर्टों के आधार पर वित्तीय वर्ष के

अंत में अप्रयुक्त राख पर 1000 रुपए प्रति टन की दर से पर्यावरणीय प्रतिकर लगाया जाएगा और यदि यह तीन वर्ष के चक्र के तीसरे वर्ष में 100 प्रतिशत राख का उपयोग करने में असमर्थ रहता है, तो वह अप्रयुक्त मात्रा पर 1000 रुपए प्रति टन की दर से पर्यावरणीय प्रतिकर के भुगतान का पात्र होगा, जिस पर पहले पर्यावरणीय प्रतिकर नहीं लगायी गयी है।

परंतु पर्यावरणीय प्रतिकर को पैरा क के उप-पैरा (4) में उल्लिखित विभिन्न उपयोगी श्रेणियों के अनुसार प्रथम अनुपालन चक्र के अंतिम वर्ष के अंत में अनुमान लगाया जाएगा और अधिरोपित किया जाएगा।

- (2) अधिकारियों द्वारा एकत्रित पर्यावरणीय प्रतिकर को केन्द्रीय प्रदूषण नियंत्रण बोर्ड के निर्दिष्ट खाते में जमा किया जाएगा।
- (3) लैगोसी राख के मामले में, यदि कोयला या लिग्नाइट आधारित तापीय ऊर्जा संयंत्र (कैप्टिव या सह-उत्पादक स्टेशनों या दोनों सहित) ने स्थापित क्षमता पर आधारित उत्पन्न राख का कम-से-कम 20 प्रतिशत (प्रथम वर्ष के लिए), 35 प्रतिशत (द्वितीय वर्ष के लिए), 50 प्रतिशत (तीसरे से दसवें वर्ष तक) उपयोग के बराबर लक्ष्य प्राप्त नहीं किया है तो उस वित्तीय वर्ष के दौरान अप्रयुक्त लैगोसी राख पर 1000 रुपए प्रति टन की दर से पर्यावरणीय प्रतिकर लगाया जाएगा और यदि 10 वर्ष के अंत में लैगोसी राख का उपयोग नहीं किया जाता है तो 1000 रुपए प्रति टन की दर से शेष अप्रयुक्त मात्रा पर पर्यावरणीय प्रतिकर लगाया जाएगा जिस पर पहले पर्यावरणीय प्रतिकर नहीं लगाया गया है।
- (4) अधिकृत खरीददारों या उपभोक्ता अभिकरणों तक राख भेजने की जिम्मेदारी परिवाहकों या वाहन मालिक की जिम्मेदारी है और यदि इसका अनुपालन नहीं किया जाता है, तो अनधिकृत उपयोगकर्ताओं अथवा गैर-अधिकृत उपयोगकर्ताओं को ऐसी मात्रा गलत तरीके से वितरित करने पर 1500 रुपए प्रति टन की दर से पर्यावरणीय प्रतिकर लगायी, इसके अतिरिक्त राज्य प्रदूषण नियंत्रण बोर्ड (एसपीसीबी) या प्रदूषण नियंत्रण समिति (पीसीसी) द्वारा गैर अनुपालनकर्ता परिवाहकों पर अभियोजन लागू होगा।
- (5) इस अधिसूचना के पैरा ख में विहित पर्यावरण अनुकूल तरीके में राख के उपयोग की जिम्मेदारी खरीददार या उपभोगकर्ता एजेंसियों की है और ऐसा नहीं करने पर केन्द्रीय प्रदूषण नियंत्रण बोर्ड (एसपीसीबी) या प्रदूषण नियंत्रण समिति (पीसीसी) द्वारा 1500 रुपए प्रति टन की दर से पर्यावरणीय प्रतिकर लगाया जाएगा।
- (6) यदि उपयोगकर्ता अधिकरण पैरा ख के अधीन निर्धारित सीमा तक अथवा पैरा घ के उप-पैरा (1) के अधीन, दिए गए नोटिस के माध्यम से सूचित की गई सीमा, इनमें से जो भी कम हो, तक राख का उपयोग नहीं करती है, वे अतिरिक्त राख की मात्रा का 1500 रुपए प्रति टन की दर से भुगतान करने के लिए उत्तरदायी होंगी।  
परंतु भवन निर्माण के संबंध में पर्यावरणीय प्रतिकर निर्मित क्षेत्र के 75 रुपये प्रति वर्ग फीट की दर से वसूल किया जाएगा।
- (7) (i) ताप विद्युत संयंत्रों अन्य बकायादारों से केन्द्रीय प्रदूषण नियंत्रण बोर्ड द्वारा लगायी गई का पर्यावरणीय प्रतिकर उपयोग अप्रयुक्त राख के सुरक्षित निपटान हेतु किया जाएगा और राख आधारित उत्पादों सहित राख के उपयोग के संबंध में और अधिक अनुसंधान करने के लिए भी निधि का उपयोग किया जा सकता है।  
(ii) अप्रयुक्त मात्रा पर लगाए गए पर्यावरणीय प्रतिकर के पश्चात भी राख के उपयोग का उत्तरदायित्व ताप विद्युत संयंत्रों की होगी और यदि पश्चातवती चक्रों में पर्यावरणीय प्रतिकर लगाने के पश्चात ताप विद्युत संयंत्र, किसी विशेष चक्र की राख के उपयोग के लक्ष्य को प्राप्त करता है तो अगले चक्र के दौरान अप्रयुक्त मात्रा पर एकत्र की गई पर्यावरणीय प्रतिकर में 10 प्रतिशत कटौती के पश्चात उक्त रकम ताप विद्युत संयंत्र को वापस कर दी जाएगी और पश्चातवती चक्रों में राख के उपयोग के मामले में एकत्र की गई पर्यावरणीय प्रतिकर की 20 प्रतिशत, 30 प्रतिशत और उसी क्रम में कटौती की जानी है।

**घ. राख या राख आधारित उत्पादों की आपूर्ति हेतु प्रक्रिया .-**

- (1) ताप विद्युत संयंत्रों के स्वामी अथवा राख की ईंटों या टाईल्स या धातुमल आधारित राख के विनिर्माता उन व्यक्तियों या अभिकरणों को लिखित सूचना देंगे जो बिक्री या परिवहन या दोनों के लिए प्रस्तुत राख या राख आधारित उत्पादों के उपयोग के लिए उत्तरदायी हैं।
- (2) ऐसे व्यक्ति या उपयोगकर्ता अभिकरणों जिन्हें ताप विद्युत संयंत्रों के स्वामी द्वारा या राख की ईंटों या टाईल्स या धातुमल आधारित राख के उत्पादकों द्वारा सूचना दी गई है, यदि वे पहले ही राख या राख उत्पादों के उपयोग के प्रयोजन से अन्य अभिकरणों के साथ जुड़े हुए हैं, यदि वे किसी भी राख/राख उत्पादों का उपयोग नहीं कर सकते हैं अथवा कम मात्रा का उपयोग कर सकते हैं, तदनुसार ताप विद्युत संयंत्र को सूचित करेंगे।

**ड. प्रवर्तन, निगरानी, लेखा परीक्षा और प्रतिवेदन करना**

- (1) केंद्रीय प्रदूषण नियंत्रण बोर्ड (सीपीसीबी) और संबंधित राज्य प्रदूषण नियंत्रण बोर्ड (एसपीसीबी) या प्रदूषण नियंत्रण समिति (पीसीसी), उपबंधों के अनुपालना सुनिश्चित करने के लिए प्रवर्तन और निगरानी प्राधिकरण होंगे। सीपीसीबी या एसपीसीबी या पीसीसी तिमाही आधार पर राख के उपयोग की निगरानी करेंगे और सीपीसीबी इस प्रयोजन के लिए अधिसूचना की प्रकाशन की तारीख से छः माह के भीतर एक पोर्टल विकसित करेगा। संबंधित जिला अधिकारी के पास इस अधिसूचना के उपबंधों को लागू करने और निगरानी करने के लिए समवर्ती अधिकारिता होगी।
- (2) (i) ताप विद्युत संयंत्र, राख उत्सर्जन और उपयोग से संबंधित मासिक सूचना वेब पोर्टल पर अगले महीने की 5 तारीख तक अपलोड करेगा। कोयला या लिग्नाइट आधारित ताप ऊर्जा संयंत्रों द्वारा केंद्रीय प्रदूषण नियंत्रण बोर्ड, संबंधित राज्य प्रदूषण नियंत्रण बोर्ड या प्रदूषण नियंत्रण समिति (पीसीसी), केंद्रीय विद्युत प्राधिकरण (सीईए) और पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय के संबंधित एकीकृत क्षेत्रीय कार्यालयों को इस अधिसूचना के उपबंधों के अनुपालन संबंधी सूचना उपलब्ध कराते हुए वार्षिक कार्यान्वयन रिपोर्ट प्रत्येक वर्ष (1 अप्रैल से 31 मार्च तक की अवधि के लिए) अप्रैल माह के 30वें दिन तक प्रस्तुत की जाएगी। सीपीसीबी और सीईए द्वारा सभी ताप विद्युत संयंत्रों द्वारा प्रस्तुत वार्षिक रिपोर्टों का समेकन किया जाएगा और उसे पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय को 31 मई तक प्रस्तुत किया जाएगा।
- (ii) सभी अन्य उपयोगकर्ता अधिकरण पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय या राज्य स्तरीय पर्यावरण प्रभाव आकलन प्राधिकरण (एसईआईएए) द्वारा जारी पर्यावरणीय मंजूरी (ईसी) अथवा राज्य प्रदूषण नियंत्रण बोर्ड (एसपीसीबी) या प्रदूषण नियंत्रण समिति (पीसीसी) द्वारा जारी संचालन की सहमति (सीटीओ), जो भी लागू हो, की अनुपालना रिपोर्ट में इस अधिसूचना में आज्ञापकता के अनुसार राख के उपभोग या उपयोग या निस्तारण तथा राख आधारित उत्पादों के उपयोग संबंधी सूचना प्रस्तुत करेंगे। केंद्रीय प्रदूषण नियंत्रण बोर्ड (सीपीसीबी) या राज्य प्रदूषण नियंत्रण बोर्ड (एसपीसीबी) या प्रदूषण नियंत्रण समिति (पीसीसी) अधिसूचना के उपबंधों के प्रभावी कार्यान्वयन की समीक्षा करने हेतु ताप विद्युत संयंत्रों के अतिरिक्त अन्य सभी अधिकरणों की राख उपयोग की वार्षिक रिपोर्ट प्रकाशित करेंगे।
- (3) इस अधिसूचना के उपबंधों की निगरानी और कार्यान्वयन के प्रयोजन के लिए केंद्रीय प्रदूषण नियंत्रण बोर्ड (सीपीसीबी) की अध्यक्षता में एक समिति का गठन किया जाएगा जिसके सदस्य विद्युत मंत्रालय, कोयला मंत्रालय, खनन मंत्रालय, पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय, सड़क परिवहन और राजमार्ग मंत्रालय और भारी उद्यम विभाग से होने के साथ-साथ समिति के अध्यक्ष द्वारा नामित किए जाने वाले कोई संबंधित पणधारी होंगे। यह समिति संगत पणधारी को आमंत्रित कर सकती है। यह समिति इस अधिसूचना के उपबंधों के प्रभावी और दक्ष कार्यान्वयन के लिए सिफारिशें कर सकती है। यह समिति छः माह में कम से कम एक बार एक बैठक करेगी और वार्षिक कार्यान्वयन रिपोर्टों की समीक्षा करेगी और यह समिति, इस अधिसूचना द्वारा आज्ञापक किए गए अनुसार छः महीनों में कम से कम एक बार संगत पणधारी (को) को आमंत्रित करके राख के उपयोग की निगरानी करने के लिए पणधारी से साथ परामर्शदात्री बैठकें आयोजित करेगी। यह समिति पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय (एमओईएफसीसी) को छः मासिक रिपोर्ट प्रस्तुत करेगी।

- (4) ताप विद्युत संयंत्रों और राख के उपयोगकर्ताओं या राख आधारित उत्पादों के विनिर्माताओं के बीच के विवाद का समाधान करने के प्रयोजन से राज्य सरकारें या संघ राज्यक्षेत्र की सरकारें इस अधिसूचना के प्रकाशन की तारीख से तीन माह के भीतर राज्य प्रदूषण नियंत्रण बोर्ड (एसपीसीबी) या प्रदूषण नियंत्रण समिति (पीसीसी) की अध्यक्षता में एक समिति का गठन करेंगी जिसमें विद्युत विभाग के प्रतिनिधि और एक प्रतिनिधि उस विभाग का होगा, जो विवाद वाले संबंधित अभिकरण का कार्य देख रहे हैं।
- (5) केन्द्रीय प्रदूषण नियंत्रण बोर्ड (सीपीसीबी) द्वारा प्राधिकृत लेखा परीक्षकों द्वारा ताप विद्युत संयंत्रों और उपयोगकर्ता अभिकरणों द्वारा किए गए राख के निपटान की अनुपालन लेखा परीक्षा संचालित की जाएगी और लेखा परीक्षा की रिपोर्ट प्रत्येक वर्ष 30 नवम्बर तक केन्द्रीय प्रदूषण नियंत्रण बोर्ड (सीपीसीबी) और संबंधित राज्य प्रदूषण नियंत्रण बोर्ड (एसपीसीबी) या प्रदूषण नियंत्रण समिति (पीसीसी) को प्रस्तुत की जाएगी। केन्द्रीय प्रदूषण नियंत्रण बोर्ड (सीपीसीबी) और संबंधित राज्य प्रदूषण नियंत्रण बोर्ड (एसपीसीबी) या प्रदूषण नियंत्रण समिति (पीसीसी) लेखा परीक्षा की रिपोर्ट प्राप्त होने के पंद्रह दिनों के भीतर अनुपालन न करने वाले ताप विद्युत संयंत्रों के विरुद्ध कार्रवाई प्रारंभ करेंगे।

[फा. सं. एचएसएम-9/1/2019-एचएसएम]

नरेश पाल गंगवार, संयुक्त सचिव

उपाबंध

31 मई तक अथवा उससे पहले प्रस्तुत की जाने वाली राख संबंधी उपबंधों की अनुपालन रिपोर्ट (01 अप्रैल से 31 मार्च की अवधि के लिए)।

| क्र.सं. | ब्यौरा   |  |
|---------|--|--|
| 1.      | विद्युत संयंत्र का नाम   |  |
| 2.      | कंपनी का नाम   |  |
| 3.      | जिला   |  |
| 4.      | राज्य  |  |
| 5.      | पत्राचार के लिए डाक का पता :   |  |
| 6.      | ई-मेल :  |  |
| 7.      | विद्युत संयंत्र की संस्थापित क्षमता (मेगा वॉट) :   |  |
| 8.      | संयंत्र लोड फैक्टर (पीएलएफ) :  |  |
| 9.      | उत्पादित यूनिटों की संख्या (एमडब्ल्यूएच) :   |  |
| 10.     | विद्युत संयंत्र के अंतर्गत कुल क्षेत्र (हेक्टेयर)<br>(राख कुंडों के अधीन क्षेत्र सहित) :   |  |
| 11.     | रिपोर्टिंग की अवधि के दौरान कोयला खपत की मात्रा<br>(प्रति वर्ष मीट्रिक टन) :   |  |
| 12.     | औसत राख सामग्री प्रतिशतता में (%) :  |  |
| 13.     | रिपोर्टिंग की अवधि के दौरान वर्तमान में उत्पादित राख की मात्रा<br>(प्रति वर्ष मीट्रिक टन) :<br>फ्लाई राख (प्रति वर्ष मीट्रिक टन) :<br>बॉटम राख (प्रति वर्ष मीट्रिक टन) : |  |
| 14.     | ड्राई फ्लाई राख भंडारण गड्ढा (गड्ढों) की क्षमता (मीट्रिक टन) :   |  |
| 15.     | रिपोर्टिंग की अवधि के दौरान वर्तमान में उत्पादित राख के उपयोग का ब्यौरा:<br>(क) रिपोर्टिंग की अवधि के दौरान वर्तमान में उपयोग की गई राख की                               |  |

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|     | <p>कुल मात्रा (एमटीपीए) :</p> <p>(ख) उपयोग की गई फ्लाई राख की मात्रा (एमटीपीए) :</p> <ol style="list-style-type: none"> <li>i. फ्लाई-एश आधारित उत्पाद (ईट या ब्लॉक या टाइल्स या फाइबर सीमेंट शीट या पाइप या बोर्ड/पैनल) :</li> <li>ii. सीमेंट विनिर्माण :</li> <li>iii. रेडी मिक्स कंक्रीट :</li> <li>iv. राख और जीओ-पॉलिमर आधारित निर्माण सामग्री :</li> <li>v. सिंटर्ड या कोल्ड बॉन्डेड राख एग्रीगेट का निर्माण :</li> <li>vi. सड़कों, सड़क और फ्लाई ओवर के पुशतों का निर्माण :</li> <li>vii. बांधों का निर्माण :</li> <li>viii. निम्न भू-क्षेत्र का भराव :</li> <li>ix. खनिज क्षेत्रों का भराव :</li> <li>x. अधिभार वाले डम्पों में उपयोग :</li> <li>xi. कृषि :</li> <li>xii. तटीय जिलों में तटरेखा सुरक्षा संरचनाओं का निर्माण :</li> <li>xiii. अन्य देशों को राख का निर्यात :</li> <li>xiv. अन्य (कृपया विनिर्दिष्ट करें) :</li> </ol> <p>(ग) उपयोग किए गए तल के राख की मात्रा (एमटीपीए) :</p> <ol style="list-style-type: none"> <li>i. फ्लाई-एश आधारित उत्पाद (ईट या ब्लॉक या टाइल्स या फाइबर सीमेंट शीट या पाइप या बोर्ड या पैनल) :</li> <li>ii. सीमेंट विनिर्माण :</li> <li>iii. रेडी मिक्स कंक्रीट :</li> <li>iv. राख और जीओ-पॉलिमर आधारित निर्माण सामग्री :</li> <li>v. सिंटर्ड या कोल्ड बॉन्डेड राख एग्रीगेट का निर्माण :</li> <li>vi. सड़कों, सड़क और फ्लाईओवर के पुशतों का निर्माण :</li> <li>vii. बांधों का निर्माण :</li> <li>viii. निम्न भू-क्षेत्र का भराव :</li> <li>ix. खनिज क्षेत्रों का भराव :</li> <li>x. अधिभार वाले डम्पों में उपयोग :</li> <li>xi. कृषि :</li> <li>xii. तटीय जिलों में तटरेखा सुरक्षा संरचनाओं का निर्माण :</li> <li>xiii. अन्य देशों को राख का निर्यात :</li> <li>xiv. अन्य (कृपया विनिर्दिष्ट करें) :</li> </ol> <p>रिपोर्टिंग की अवधि के दौरान वर्तमान में अप्रयुक्त राख की कुल मात्रा (एमटीपीए) :</p> |  |
| 16. | रिपोर्टिंग की अवधि के दौरान वर्तमान में उत्पादित राख का प्रतिशतता उपयोग (%) :   |  |
| 17. | <p>राख कुंडों में राख के निपटान का ब्यौरा</p> <p>क) तारीख 31 मार्च तक (रिपोर्टिंग की अवधि को छोड़कर) राख कुण्ड (कुण्डों) में निपटान किए गए राख की कुल मात्रा (मीट्रिक टन):</p>  |  |

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|     | <p>ख) रिपोर्टिंग की अवधि के दौरान राख कुण्ड (कुण्डों) में निपटान किए गए राख की मात्रा (मीट्रिक टन):</p> <p>ग) रिपोर्टिंग की अवधि के दौरान राख कुण्डों में गारा निस्सरण हेतु खपत हुए जल की कुल मात्रा (मी<sup>3</sup>):</p> <p>घ) राख कुण्डों की कुल संख्या:</p> <p>(i) सक्रिय:</p> <p>(ii) खाली किए गए (पुनः भरा जाना है)</p> <p>(iii) पुनः भरे गए:</p> <p>ड.) राख कुण्डों के अधीन कुल क्षेत्र (हेक्टेयर):</p>  |  |
| 18. | <p><b>अलग-अलग राख कुण्ड का ब्यौरा</b></p> <p>राख कुण्ड 1,2 आदि (यदि राख कुण्डों की संख्या एक से अधिक हो, तो कृपया निम्नलिखित ब्यौरा अलग से उपलब्ध कराएं)</p> <p>क) स्थिति: निर्माणाधीन या सक्रिय या खाली किया गया या पुनः भरा गया</p> <p>ख) राख कुण्ड में राख का निपटान शुरू करने की तारीख/महीना/वर्ष या महीना/वर्ष):</p> <p>ग) राख कुण्ड की क्षमता पूर्ण किए जाने के पश्चात् उसमें राख निपटान रोकने की तारीख</p> <p>(तारीख/महीना/वर्ष या महीना/वर्ष):</p> <p>(सक्रिय राख कुण्डों के लिए लागू नहीं)</p> <p>ग) क्षेत्र (हेक्टेयर):</p> <p>घ) डाइक की ऊंचाई (मी.):</p> <p>घ) आयतन (मी<sup>3</sup>):</p> <p>ड.) तारीख 31 मार्च तक निपटान किए गए राख की मात्रा (मीट्रिक टन):</p> <p>च) उपलब्ध आयतन का प्रतिशत (%) और आगे निपटान किए जा सकने वाले राख की मात्रा (मीट्रिक टन):</p> <p>छ) राख कुण्ड के भरे जाने की अनुमानित अवधि (वर्षों और महीनों की संख्या):</p> <p>ड.) निर्देशांक (अक्षांश और देशान्तर):</p> <p>(कृपया न्यूनतम 4 निर्देशांकों को विनिर्दिष्ट करें)</p> <p>ज) राख कुण्ड में की गई लाइनिंग का प्रकार: एचडीपीई लाइनिंग या एलडीपीई लाइनिंग या क्ले लाइनिंग या कोई लाइनिंग नहीं</p> <p>छ) निपटान की विधि: शुष्क निपटान या नम गारा (नम गारा के मामले में कृपया विनिर्दिष्ट करें कि क्या एचसीएसडी या एमसीएसडी या एलसीएसडी है)</p> <p>ज) राख का अनुपात: गारा मिश्रण में जल (1:___):</p> <p>झ) संस्थापित और कार्यशील राख जल पुनर्चक्रण प्रणाली (एडब्ल्यूआरएस): हां या नहीं</p> <p>ञ) जमीन के अंदर या जल निकाय में राख कुण्ड से निस्सरित अपशिष्ट जल की मात्रा (मी<sup>3</sup>):</p> <p>ट) डाइक की स्थिरता का अध्ययन कराए जाने की पिछली तारीख और उस संगठन का नाम जिसने अध्ययन किया:</p> <p>ठ) लेखा-परीक्षा किए जाने की पिछली तारीख और उस संगठन का नाम जिसने लेखा-परीक्षा की:</p> |  |
| 19. | <p>उपयोग किए गए पुराने राख की मात्रा (एमटीपीए):</p> <p>i. फ्लाई-एश आधारित उत्पाद (ईट या ब्लॉक या टाइल्स या फाइबर</p>  |  |

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|     | सीमेंट शीट या पाइप या बोर्ड या पैनल):  |                          |                                       |                     |
|     | ii. सीमेंट विनिर्माण:  |                          |                                       |                     |
|     | iii. रेडी मिक्स कंक्रीट:   |                          |                                       |                     |
|     | iv. राख और जीओ-पॉलिमर आधारित निर्माण सामग्री:  |                          |                                       |                     |
|     | v. सिंटर्ड या कोल्ड बॉन्डेड राख एग्रीगेट का निर्माण:   |                          |                                       |                     |
|     | vi. सड़कों, सड़क और फ्लाई ओवर के पुशतों का निर्माण:  |                          |                                       |                     |
|     | vii. बांधों का निर्माण:  |                          |                                       |                     |
|     | viii. निम्न भू-क्षेत्र का भराव:  |                          |                                       |                     |
|     | ix. खनिज क्षेत्रों का भराव:  |                          |                                       |                     |
|     | x. अधिभार वाले डम्पों में उपयोग:   |                          |                                       |                     |
|     | xi. कृषि:  |                          |                                       |                     |
|     | xii. तटीय जिलों में तटरेखा सुरक्षा संरचनाओं का निर्माण:  |                          |                                       |                     |
|     | xiii. अन्य देशों को राख का निर्यात   |                          |                                       |                     |
|     | xiv. अन्य (कृपया विनिर्दिष्ट करें):  |                          |                                       |                     |
| 20. | सार :  |                          |                                       |                     |
|     | व्यौरा   | सृजित मात्रा<br>(एमटीपी) | उपयोग की गई मात्रा<br>(एमटीपी) और (%) | शेष मात्रा (एमटीपी) |
|     | रिपोर्टिंग की अवधि के<br>दौरान राख   |                          |                                       |                     |
|     | पुरानी राख   |                          |                                       |                     |
|     | कुल  |                          |                                       |                     |
| 21. | कोई अन्य सूचना :<br>वार्षिक अनुपालन रिपोर्ट, और विद्युत संयंत्रों और राख<br>कुण्डों की शेष फाइलों की सॉफ्ट कॉपी ई-मेल:- <a href="mailto:moefcc-coalash@gov.in">moefcc-<br/>coalash@gov.in</a> पर भेजी जाए। |                          |                                       |                     |
| 22. | प्राधिकृत हस्ताक्षरकर्ता के हस्ताक्षर  |                          |                                       |                     |

**MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE**

**NOTIFICATION**

New Delhi, the 31st December, 2021

**S.O. 5481(E).**—Whereas by notification of the Government of India in the erstwhile Ministry of Environment and Forests *vide* S.O.763 (E), dated the 14<sup>th</sup> September, 1999, as amended from time to time, the Central Government, issued directions for restricting the excavation of top soil for manufacturing of bricks and promoting the utilisation of fly ash in the manufacturing of building materials and in construction activity within a specified radius of three hundred kilometres from the coal or lignite based thermal power plants;

And whereas, to implement the aforesaid notification more effectively based on the polluter pays principle (PPP) thereby ensuring 100 per cent utilisation of fly ash by the coal or lignite based thermal power plants and for the sustainability of the fly ash management system, the Central Government reviewed the existing notification; and whereas environmental compensation needs to be introduced based on the polluter pays principle;

And whereas, there is a need to conserve top soil by promoting manufacture and mandating use of ash based products and building materials in the construction sector;

And whereas, there is a need to conserve top soil and natural resources by promoting utilisation of ash in road laying, road and flyover embankments, shoreline protection measures, low lying areas of approved projects, backfilling of mines, as an alternative for filling of earthen materials;

And whereas, it is necessary to protect the environment and prevent the dumping and disposal of fly ash discharged from coal or lignite based thermal power plants on land;

And whereas, in the said notification the phrase 'ash', has been used which includes both fly ash as well as bottom ash generated from the Coal or Lignite based thermal power plants;

And whereas, the Central Government intends to bring out a comprehensive framework for ash utilisation including system of environmental compensation based on polluter pays principle;

And whereas, a draft notification on ash utilisation by coal or lignite thermal power plants in supersession of the notification of the Government of India, Ministry of Environment and Forests published in the Gazette of India, Extra Ordinary part II, section 3, sub-section (i) *vide* S.O.763 (E), dated the 14<sup>th</sup> September, 1999, by notification in exercise of the powers conferred under sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 (29 of 1986) read with clause (d) of sub-rule (3) of rule (5) of the Environment (Protection) Rules, 1986, was published in the Gazette of India, Extraordinary, Part II, section 3, sub-section (i), *vide* G.S.R. 285(E), dated the 22nd April, 2021 inviting objections and suggestions from all persons likely to be affected thereby before the expiry of sixty days from the date on which copies of the Gazette containing the said draft provisions were made available to the public;

And, whereas all the objections and suggestions received from all persons likely to be affected thereby in respect of the said draft notification have been duly considered by the Central Government;

Now, therefore, in exercise of the powers conferred by sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 (29 of 1986) read with clause (d) of sub-rule (3) of rule (5) of the Environment (Protection) Rules, 1986, and in supersession of the Notification S.O.763 (E), dated the 14<sup>th</sup> September, 1999 except as respect things done or omitted to be done before such supersession, the Central Government hereby issues the following notification on ash utilisation from coal or lignite thermal power plants which shall come into force on the date of the publication of this notification, namely:-

**A. Responsibilities of thermal power plants to dispose fly ash and bottom ash.—**

- (1) Every coal or lignite based thermal power plant (including captive or co-generating stations or both) shall be primarily responsible to ensure 100 per cent utilisation of ash (fly ash, and bottom ash) generated by it in an eco-friendly manner as given in sub-paragraph (2);
- (2) The ash generated from coal or lignite based thermal power plants shall be utilised only for the following eco-friendly purposes, namely:-
  - (i) Fly ash based products viz. bricks, blocks, tiles, fibre cement sheets, pipes, boards, panels;
  - (ii) Cement manufacturing, ready mix concrete;
  - (iii) Construction of road and fly over embankment, Ash and Geo-polymer based construction material;
  - (iv) Construction of dam;
  - (v) Filling up of low lying area;
  - (vi) Filling of mine voids;
  - (vii) Manufacturing of sintered or cold bonded ash aggregate;
  - (viii) Agriculture in a controlled manner based on soil testing;
  - (ix) Construction of shoreline protection structures in coastal districts;

- (x) Export of ash to other countries;
- (xi) Any other eco-friendly purpose as notified from time to time.
- (3) A committee shall be constituted under the chairmanship of Chairman, Central Pollution Control Board (CPCB) and having representatives from Ministry of Environment, Forest and Climate Change (MoEFCC), Ministry of Power, Ministry of Mines, Ministry of Coal, Ministry of Road Transport and Highways, Department of Agricultural Research and Education, Institute of Road Congress, National Council for Cement and Building Materials, to examine and review and recommend the eco-friendly ways of utilisation of ash and make inclusion or exclusion or modification in the list of such ways as mentioned in Sub-paragraph (2) based on technological developments and requests received from stakeholders. The committee may invite State Pollution Control Board or Pollution Control Committee, operators of thermal power plants and mines, cement plants and other stakeholders as and when required for this purpose. Based on the recommendations of the Committee, Ministry of Environment, Forest and Climate Change (MoEFCC) may publish such eco-friendly purpose.
- (4) Every coal or lignite based thermal power plant shall be responsible to utilise 100 per cent ash (fly ash and bottom ash) generated during that year, however, in no case shall utilisation fall below 80 per cent in any year, and the thermal power plant shall achieve average ash utilisation of 100 per cent in a three years cycle:

Provided that the three years cycle applicable for the first time is extendable by one year for the thermal power plants where ash utilisation is in the range of 60-80 per cent, and two years where ash utilisation is below 60 per cent and for the purpose of calculation of percentage of ash utilisation, the percentage quantity of utilisation in the year 2021- 2022 shall be taken into account as per the table below:

| Utilisation percentages of thermal power plants | First compliance Cycle to meet 100 per cent utilisation | Second compliance cycle onwards, to meet 100 per cent utilisation |
|---|---|---|
| >80 per cent                                    | 3 years   | 3 years   |
| 60-80 per cent                                  | 4 years   | 3 years   |
| <60 per cent                                    | 5 years   | 3 years   |

Provided further that the minimum utilisation percentage of 80 per cent shall not be applicable to the first year and first two years of the first compliance cycle for the thermal power plants under the utilisation category of 60-80 per cent and <60 per cent, respectively.

Provided also that 20per cent of ash generated in the final year of compliance cycle may be carried forward to the next cycle which shall be utilised in the next three years cycle along with the ash generated during that cycle.

- (5) The unutilised accumulated ash i.e. legacy ash, which is stored before the publication of this notification, shall be utilised progressively by the thermal power plants in such a manner that the utilization of legacy ash shall be completed fully within ten years from the date of publication of this notification and this will be over and above the utilisation targets prescribed for ash generation through current operations of that particular year:

Provided that the minimum quantity of legacy ash in percentages as mentioned below shall be utilised during the corresponding year and the minimum quantity of legacy ash is to be calculated based on the annual ash generation as per installed capacity of thermal power plant.

| Year from date of publication                           | 1 <sup>st</sup>      | 2 <sup>nd</sup>      | 3 <sup>rd</sup> -10 <sup>th</sup> |
|---|----------------------|----------------------|-----------------------------------|
| Utilisation of legacy ash (in percentage of Annual ash) | At least 20 per cent | At least 35 per cent | At least 50 per cent              |

Provided further that the legacy ash utilisation shall not be required where ash pond or dyke has stabilised and the reclamation has taken place with greenbelt or plantation and the concerned State Pollution Control Board shall certify in this regard. Stabilisation and reclamation of an ash pond or dyke including certification by the Central Pollution Control Board (CPCB) or State Pollution Control Board (SPCB) or Pollution Control Committee (PCC) shall be carried out within a year from the date of publication of this notification. The ash remaining in all other ash ponds or dykes shall be utilised in progressive manner as per the above mentioned timelines.

**Note:** The obligations under sub-paragraph (4) and (5) above for achieving the ash utilisation targets shall be applicable from 1<sup>st</sup> April, 2022.

- (6) Any new as well as operational thermal power plant may be permitted an emergency or temporary ash pond with an area of 0.1 hectare per Mega Watt (MW). Technical specifications of ash ponds or dykes shall be as per the guidelines of Central Pollution Control Board (CPCB) made in consultation with Central Electricity Authority (CEA) and these guidelines shall also lay down a procedure for annual certification of the ash pond or dyke on its safety, environmental pollution, available volume, mode of disposal, water consumption or conservation in disposal, ash water recycling and greenbelt, etc., and shall be put in place within three months from the date of publication of this notification.
- (7) Every coal or lignite based thermal power plant shall ensure that loading, unloading, transport, storage and disposal of ash is done in an environmentally sound manner and that all precautions to prevent air and water pollution are taken and status in this regard shall be reported to the concerned State Pollution Control Board (SPCB) or Pollution Control Committee (PCC) in Annexure attached to this notification.
- (8) Every coal or lignite based thermal power plant shall install dedicated silos for storage of dry fly ash silos for at least sixteen hours of ash based on installed capacity and it shall be reported upon to the concerned State Pollution Control Board (SPCB) or Pollution Control Committee (PCC) in the Annexure and shall be inspected by Central Pollution Control Board (CPCB) or State Pollution Control Board (SPCB) or Pollution Control Committee (PCC) from time to time.
- (9) Every coal or lignite based thermal power plant (including captive or co-generating stations or both) shall provide real time data on daily basis of availability of ash with Thermal Power Plant (TPP), by providing link to Central Pollution Control Board's web portal or mobile phone App for the benefit of actual user(s).
- (10) Statutory obligation of 100 per cent utilisation of ash shall be treated as a change in law, wherever applicable.

**B. For the purpose of utilisation of ash, the subsequent sub-paras shall apply.—**

- (1) All agencies (Government, Semi-government and Private) engaged in construction activities such as road laying, road and flyover embankments, shoreline protection structures in coastal districts and dams within 300 kms from the lignite or coal based thermal power plants shall mandatorily utilise ash in these activities:

Provided that it is delivered at the project site free of cost and transportation cost is borne by such coal or lignite based thermal power plants.

Provided further that thermal power plant may charge for ash cost and transportation as per mutually agreed terms, in case thermal power plant is able to dispose the ash through other means and those agencies makes a request for it and the provisions of ash free of cost and free transportation shall be applicable, if thermal power plant serves a notice on the construction agency for the same.

- (2) The utilisation of ash in the said activities shall be carried out in accordance with specifications and guidelines laid down by the Bureau of Indian Standards, Indian Road Congress, Central Building Research Institute, Roorkee, Central Road Research Institute, Delhi, Central Public Works Department, State Public Works Departments and other Central and State Government Agencies.

- (3) It shall be obligatory on all mines located within 300 kilometres radius of thermal power plant, to undertake backfilling of ash in mine voids or mixing of ash with external Overburden dumps, under Extended Producer Responsibility (EPR). All mine owners or operators (Government, Public and Private Sector) within three hundred kilometres (by road) from coal or lignite based thermal power plants, shall undertake measures to mix at least 25 per cent of ash on weight to weight basis of the materials used for external dump of overburden, backfilling or stowing of mine (running or abandoned as the case may be) as per the guidelines of the Director General of Mines Safety (DGMS):

Provided that such thermal power stations shall facilitate the availability of required quantity of ash by delivering ash free of cost and bearing the cost of transportation or cost of transportation arrangement decided on mutually agreed terms and mixing of ash with overburden in mine voids and dumps shall be applicable for the overburden generated from the date of publication of this notification and the utilisation of ash in the said activities shall be carried out in accordance with guidelines laid down by the Central Pollution Control Board, Director General of Mines Safety and Indian Bureau of Mines.

Explanation.- For the purpose of this sub-paragraph, it is also clarified that the provisions of ash free of cost and free transportation shall be applicable, if thermal power plants serve a notice on the mine owner for the same and the mandate of using 25 per cent of ash for mixing with overburden dump and filling up of mine voids shall not be applicable unless a notice is served on the mine owner by thermal power plant.

- (4) (i) All mine owners shall get mine closure plans (progressive and final) to accommodate ash in the mine voids and the concerned authority shall approve mine plans for disposal of ash in mine voids and mixing of ash with overburden dumps. The Ministry of Environment, Forest and Climate Change (MoEFCC) has issued guidelines on 28<sup>th</sup> August, 2019 regarding exemption of requirement of Environmental Clearance of thermal power plants and coal mines along with the guidelines to be followed for such disposal.
- (ii) The Ministry in consultation with Central Pollution Control Board (CPCB), Director General of Mine Safety (DGMS) and Indian Bureau of Mines (IBM) may issue further guidelines time to time to facilitate ash disposal in mine voids and mixing with overburden dumps and it shall be the responsibility of mine owners to get the necessary amendments or modifications in the permissions issued by various regulatory authorities within one year from the date of identification of such mines.
- (5) (i) There shall be a committee headed by Chairperson, Central Pollution Control Board (CPCB) with representatives from Ministry of Environment, Forest and Climate Change, Ministry of Power, Ministry of Mines, Ministry of Coal, Director General of Mine Safety and Indian Bureau of Mines for identification of mines for backfilling of mine voids with ash or mixing of ash with overburden dump including examination of safety, feasibility (not economic feasibility) and aspects of environmental contamination and the committee shall get updated quarterly reports prepared regarding identified mines (both underground and opencast) for the stakeholder Ministries or Departments and the committee shall start identifying the suitable mines immediately after the publication of this notification.
- (ii) Thermal power plants or mines shall not wait for disposal of ash till the identification is done by the above mentioned committee, to meet the utilisation targets mandated as above.
- (6) Filling of low lying areas with ash shall be carried out with prior permission of the State Pollution Control Board or Pollution Control Committee for approved projects, and in accordance with guidelines laid down by Central Pollution Control Board (CPCB) and the State Pollution Control Board or Pollution Control Committee (PCC) shall publish approved sites, location, area and permitted quantity annually on its website.
- (7) Central Pollution Control Board after engaging relevant stakeholders, shall put in place the guidelines within one year for all types of activities envisaged under this notification including putting in place time bound online application process for the grant permission by State Pollution Control Boards (SPCBs) or Pollution Control Committees (PCCs).

- (8) All building construction projects (Central, State and Local authorities, Govt. undertakings, other Govt. agencies and all private agencies) located within a radius of three hundred kilometres from a coal or lignite based thermal power plant shall use ash bricks, tiles, sintered ash aggregate or other ash based products, provided these are made available at prices not higher than the price of alternative products.
- (9) Manufacturing of ash based products and use of ash in such products shall be in accordance with specifications and guidelines laid down by the Bureau of Indian Standards, Indian Road Congress, and Central Pollution Control Board.

**C. Environmental compensation for non-compliance.—**

- (1) In the first two years of a three years cycle, if the coal or lignite based thermal power plant (including captive or co-generating stations or both) has not achieved at least 80 per cent ash (fly ash and bottom ash) utilisation, then such non-compliant thermal power plants shall be imposed with an environmental compensation of Rs. 1000 per ton on unutilised ash during the end of financial year based on the annual reports submitted and if it is unable to utilise 100 per cent of ash in the third year of the three years cycle, it shall be liable to pay an environmental compensation of Rs. 1000 per ton on the unutilised quantity on which environmental compensation has not been imposed earlier:

Provided that the environmental compensation shall be estimated and imposed at the end of last year of the first compliance cycle as per the various utilisation categories as mentioned in sub-paragraph (4) of Para A.

- (2) Environmental compensation collected by the authorities shall be deposited in the designated account of Central Pollution Control Board.
- (3) In case of legacy ash, if the coal or lignite based thermal power plant (including captive or co-generating stations or both) has not achieved utilisation equivalent to at least 20 per cent (for the first year), 35 per cent (for the second year), 50 per cent (for third to tenth year) of ash generated based on installed capacity, an environmental compensation of Rs. 1000 per ton of unutilised legacy ash during that financial year shall be imposed and if the utilization of legacy ash is not completed at the end of 10 years, an environmental compensation of Rs.1000 per ton shall be imposed on the remaining unutilised quantity which has not been imposed earlier.
- (4) It shall be the responsibility of the transporters or vehicle owner to deliver ash to authorised purchaser or user agency and if it is not complied, then an environmental compensation of Rs. 1500 per ton on such quantity as mis-delivered to unauthorised users or non- delivered to authorised users will be imposed besides prosecution of such non-compliant transporters by State Pollution Control Board (SPCB) or Pollution Control Committee (PCC).
- (5) It is the responsibility of the purchasers or user agencies to utilise ash in an eco-friendly manner as laid down at para B of this notification and if it is not complied, then an environmental compensation of Rs. 1500 per ton shall be imposed by State Pollution Control Board (SPCB) or Pollution Control Committee (PCC).
- (6) If the user agencies do not utilise ash to the extent obligated under para B or the extent to which they have been intimated through Notice(s) served under sub-paragraph (1) of para D, whichever is lower, they shall be liable to pay Rs. 1500 per ton of ash for the quantity they fall short off:

Provided that the environmental compensation on building constructions shall be levied at Rs.75/- per square feet of built up area of construction.

- (7) (i) The environmental compensation collected by Central Pollution Control Board from the thermal power plants and other defaulters shall be used towards the safe disposal of the unutilised ash and the fund may also be utilised for advancing research on use of ash including ash based products.

(ii) The liability of ash utilisation shall be with thermal power plants even after imposition of environmental compensation on unutilised quantities and in case thermal power plant achieves the ash utilisation of any

particular cycle after imposition of environmental compensation in subsequent cycles, the said amount shall be returned to thermal power plant after deducting 10 per cent of the environmental compensation collected on the unutilised quantity during the next cycle and deduction of 20 per cent, 30 per cent, and so on, of the environmental compensation collected is to be made in case of utilisation of ash in subsequent cycles.

**D. Procedure for supply of ash or ash based products.—**

- (1) The owner of thermal power plants or manufacturers of ash bricks or tiles or sintered ash aggregate shall serve written notice to persons or agencies who are liable to utilise ash or ash based products, offering for sale, or transport or both.
- (2) Persons or user agencies who have been served notices by owner of thermal power plants or manufacturers of ash bricks or tiles or sintered ash aggregate, if they have already tied up with other agencies for the purpose of utilisation of ash or ash products, shall inform the thermal power plant accordingly, if they cannot use any ash or ash products or use reduced quantity.

**E. Enforcement, Monitoring, Audit and Reporting.—**

- (1) The Central Pollution Control Board (CPCB) and the concerned State Pollution Control Board (SPCB) or Pollution Control Committee (PCC) shall be the enforcing and monitoring authority for ensuring compliance of the provisions and shall monitor the utilisation of ash on quarterly basis. Central Pollution Control Board shall develop a portal for the purpose within six months of date of publication of the notification. The concerned District Magistrate shall have concurrent jurisdiction for enforcement and monitoring of the provisions of this notification.
- (2) (i) Thermal power plants shall upload monthly information regarding ash generation and utilisation by 5th of the next month on the web portal. Annual implementation report (for the period 1<sup>st</sup> April to 31<sup>st</sup> March) providing information about the compliance of provisions in this notification shall be submitted by the 30<sup>th</sup> day of April, every year to the Central Pollution Control Board, concerned State Pollution Control Board or Pollution Control Committee (PCC), Central Electricity Authority (CEA), and concerned Integrated Regional Office of Ministry of Environment, Forest and Climate Change by the coal or lignite based thermal power plants. Central Pollution Control Board and Central Electricity Authority shall compile the annual reports submitted by all the thermal power plants and submit to Ministry of Environment, Forest and Climate Change by 31st May.  
  
(ii) All other user agencies shall submit consumption or utilisation or disposal of ash and use of ash based products as mandated in this notification in the compliance report of Environmental Clearance (EC) issued by Ministry of Environment, Forest and Climate Change or State Level Environment Impact Assessment Authority (SEIAA) or Consent to Operate (CTO) issued by State Pollution Control Board (SPCB) or Pollution Control Committee (PCC), whichever is applicable. The Central Pollution Control Board (CPCB) or State Pollution Control Board (SPCB) or Pollution Control Committee (PCC) shall publish annual report of ash utilisation of all other agencies except thermal power plants to review the effective implementation of the provisions of the notification.
- (3) For the purpose of monitoring the implementation of the provisions of this notification, a committee shall be constituted under the Chairperson, Central Pollution Control Board (CPCB), with members from Ministry of Power, Ministry of Coal, Ministry of Mines, Ministry of Environment, Forest and Climate Change, Ministry Road Transportation and Highways, Department of Heavy Industry as well as any concerned stakeholder(s), to be nominated by the Chairman of the committee. The committee may make recommendations for effective and efficient implementation of the provisions of the notification. The committee shall meet at least once in six months and review annual implementation reports and the committee shall also hold stakeholder consultations for monitoring of ash utilisation as mandated by this notification by inviting relevant stakeholder(s) at least once in six months. The committee shall submit the six monthly report to Ministry of Environment, Forest and Climate Change (MoEFCC).

- (4) For the purpose of resolving disputes between thermal power plants and users of ash or manufacturer of ash based products, the State Governments or Union territory administration constitute a Committee within three months from the date of publication of this notification under the Chairman, State Pollution Control Board (SPCB) or Pollution Control Committee (PCC) with representatives from Department of Power, and one representative from the Department which deals with the subject of concerned agency with which dispute is made.
- (5) The compliance audit for ash disposal by the thermal power plants and the user agency shall be conducted by auditors, authorised by Central Pollution Control Board (CPCB) and audit report shall be submitted to Central Pollution Control Board (CPCB) and concerned State Pollution Control Board (SPCB) or Pollution Control Committee (PCC) by 30th November every year. Central Pollution Control Board (CPCB) and concerned State Pollution Control Board (SPCB) or Pollution Control Committee (PCC) shall initiate action against non-compliant thermal power plants within fifteen days of receipt of audit report.

[F. No. HSM-9/1/2019-HSM]

NARESH PAL GANGWAR, Jt. Secy.

**Annexure**Ash Compliance Report (for the period 1<sup>st</sup> April-31<sup>st</sup> March) to be submitted on or before 31<sup>st</sup> May.

| Sl. No. | Details   |  |
|---------|---|--|
| 1.      | Name of Power Plant   |  |
| 2.      | Name of the company   |  |
| 3.      | District  |  |
| 4.      | State   |  |
| 5.      | Postal address for communication:   |  |
| 6.      | E-mail:   |  |
| 7.      | Power Plant installed capacity (MW):  |  |
| 8.      | Plant Load Factor (PLF):  |  |
| 9.      | No. of units generated (MWh):   |  |
| 10.     | Total area under power plant (ha):<br>(including area under ash ponds)  |  |
| 11.     | Quantity of coal consumption during reporting period (Metric Tons per Annum):   |  |
| 12.     | Average ash content in percentage (per cent):   |  |
| 13.     | Quantity of current ash generation during reporting period (Metric Tons per Annum):<br>Fly ash (Metric Tons per Annum):<br>Bottom ash (Metric Tons per Annum):  |  |
| 14.     | Capacity of dry fly ash storage silo(s) (Metric Tons) :   |  |
| 15.     | Details of utilisation of current ash generated during reporting period<br>(a) Total quantity of current ash utilised (MTPA) during reporting period:<br>(b) Quantity of fly ash utilised (MTPA):<br>(i) Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels)<br>(ii) Cement manufacturing: |  |

|     |  |  |
|-----|--|--|
|     | <ul style="list-style-type: none"> <li>(iii) Ready mix concrete:</li> <li>(iv) Ash and Geo-polymer based construction material:</li> <li>(v) Manufacturing of sintered or cold bonded ash aggregate:</li> <li>(vi) Construction of roads, road and fly over embankment:</li> <li>(vii) Construction of dams:</li> <li>(viii) Filling up of low lying area:</li> <li>(ix) Filling of mine voids:</li> <li>(x) Use in overburden dumps:</li> <li>(xi) Agriculture:</li> <li>(xii) Construction of shoreline protection structures in coastal districts;</li> <li>(xiii) Export of ash to other countries:</li> <li>(xiv) Others (please specify):</li> </ul> <p>(c) Quantity of bottom ash utilised (MTPA):</p> <ul style="list-style-type: none"> <li>(i) Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels):</li> <li>(ii) Cement manufacturing:</li> <li>(iii) Ready mix concrete:</li> <li>(iv) Ash and Geo-polymer based construction material:</li> <li>(v) Manufacturing of sintered or cold bonded ash aggregate:</li> <li>(vi) Construction of roads, road and flyover embankment:</li> <li>(vii) Construction of dams:</li> <li>(viii) Filling up of low lying area:</li> <li>(ix) Filling of mine voids:</li> <li>(x) Use in overburden dumps:</li> <li>(xi) Agriculture:</li> <li>(xii) Construction of shoreline protection structures in coastal districts:</li> <li>(xiii) Export of ash to other countries:</li> <li>(xiv) Others (please specify):</li> </ul> <p>Total quantity of current ash unutilised (MTPA) during reporting period:</p> |  |
| 16. | Percentage utilisation of current ash generated during reporting period (per cent):  |  |
| 17. | <p>Details of disposal of ash in ash ponds</p> <ul style="list-style-type: none"> <li>(a) Total quantity of ash disposed in ash pond(s) (Metric Tons) as on 31<sup>st</sup> March (excluding reporting period):</li> <li>(b) Quantity of ash disposed in ash pond(s) during reporting period (Metric Tons):</li> <li>(c) Total quantity of water consumption for slurry discharge into ash ponds during reporting period (m<sup>3</sup>):</li> <li>(d) Total number of ash ponds: <ul style="list-style-type: none"> <li>(i) Active:</li> <li>(ii) Exhausted (yet to be reclaimed):</li> <li>(iii) Reclaimed:</li> </ul> </li> <li>(e) total area under ash ponds (ha):</li> </ul>   |  |
| 18. | <p>Individual ash pond details</p> <p><i>Ash pond-1,2, etc (please provide below mentioned details separately, if number of ash ponds is more than one)</i></p> <ul style="list-style-type: none"> <li>(a) Status: Under construction or Active or Exhausted or</li> </ul>   |  |

|          |  |  |                        |  |  |         |                          |  |                        |  |
|----------|--|--|------------------------|--|--|---------|--------------------------|--|------------------------|--|
|          | <p>Reclaimed</p> <p>(b) Date of start of ash disposal in ash pond (DD/MM/YYYY or MMYYYY):</p> <p>(c) Date of stoppage of ash disposal in ash pond after completing its capacity (DD/MM/YYYY or MM/YYYY):<br/>(Not applicable for active ash ponds)</p> <p>(c) area (hectares):</p> <p>(d) dyke height (m):</p> <p>(d) volume (m<sup>3</sup>):</p> <p>(e) quantity of ash disposed as on 31<sup>st</sup> March (Metric Tons):</p> <p>(f) available volume in percentage (per cent) and quantity of ash can be further disposed (Metric Tons):</p> <p>(g) expected life of ash pond (number of years and months):</p> <p>(e) co-ordinates (Lat and Long):<br/>(please specify minimum 4 co-ordinates)</p> <p>(f) type of lining carried in ash pond: HDPE lining or LDPE lining or clay lining or No lining</p> <p>g) mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LCSD)</p> <p>(h) Ratio of ash: water in slurry mix (1:___):</p> <p>(i) Ash water recycling system (AWRS) installed and functioning: Yes or No</p> <p>(j) Quantity of wastewater from ash pond discharged into land or water body (m3):</p> <p>(k) Last date when the dyke stability study was conducted and name of the organisation who conducted the study:</p> <p>(l) Last date when the audit was conducted and name of the organisation who conducted the audit:</p> |  |                        |  |  |         |                          |  |                        |  |
| 19.      | <p>Quantity of legacy ash utilised (MTPA):</p> <ol style="list-style-type: none"> <li>i. Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels):</li> <li>ii. Cement manufacturing:</li> <li>iii. Ready mix concrete:</li> <li>iv. Ash and Geo-polymer based construction material:</li> <li>v. Manufacturing of sintered or cold bonded ash aggregate:</li> <li>vi. Construction of roads, road and flyover embankment:</li> <li>vii. Construction of dams:</li> <li>viii. Filling up of low lying area:</li> <li>ix. Filling of mine voids:</li> <li>x. Use in overburden dumps:</li> <li>xi. Agriculture:</li> <li>xii. Construction of shoreline protection structures in coastal districts;</li> <li>xiii. Export of ash to other countries:</li> <li>xiv. Others (please specify):</li> </ol>  |  |                        |  |  |         |                          |  |                        |  |
| 20.      | <table border="1"> <tr> <td colspan="4" data-bbox="268 1935 1433 1980">Summary:</td> </tr> <tr> <td data-bbox="268 1980 568 2054">Details</td> <td data-bbox="568 1980 868 2054">Quantity generated (MTP)</td> <td data-bbox="868 1980 1152 2054">Quantity utilised (MTP) and (per cent)</td> <td data-bbox="1152 1980 1433 2054">Balance quantity (MTP)</td> </tr> </table>   | Summary:                               |                        |  |  | Details | Quantity generated (MTP) | Quantity utilised (MTP) and (per cent) | Balance quantity (MTP) |  |
| Summary: |  |  |                        |  |  |         |                          |  |                        |  |
| Details  | Quantity generated (MTP)   | Quantity utilised (MTP) and (per cent) | Balance quantity (MTP) |  |  |         |                          |  |                        |  |

|     |  |  |  |  |
|-----|--|--|--|--|
|     | Current ash during reporting period  |  |  |  |
|     | Legacy ash   |  |  |  |
|     | Total  |  |  |  |
| 21. | Any other information:<br>Soft copy of the annual compliance report, and shape files of power plant and ash ponds may be e-mailed to:- moefcc-coalash@gov.in |  |  |  |
| 22. | Signature of Authorised Signatory  |  |  |  |

chirun@nic.in  
Telefax: 011-24695415



सत्यमेव जयते

F.No. 9-6/2016-HSMD  
Government of India  
Ministry of Environment,  
Forest and Climate Change

444, Agni Block  
Indira Paryavaran Bhawan,  
Jorbagh, New Delhi

Date: 14<sup>th</sup> July, 2016

**OFFICE MEMORANDUM**

It has been brought to the notice of the Ministry that there is misinterpretation of the following provisions of the amendment notification on utilization of fly ash issued vide dated 25<sup>th</sup> Jan, 2016:

As per the notification on fly ash utilization as amended

"All coal or lignite based thermal power stations would be free to sell fly ash to the user agencies subject to the following conditions, namely:—

(i) the pond ash should be made available free of any charge on "as is where is basis" to manufacturers of bricks, blocks or tiles including clay fly ash product manufacturing unit(s), farmers, the Central and the State road construction agencies, Public Works Department, and to agencies engaged in backfilling or stowing of mines.

(ii) at least 20% of dry ESP fly ash shall be made available free of charge to units manufacturing fly ash or clay fly ash bricks, blocks and tiles on a priority basis over other users and if the demand from such agencies falls short of 20% of quantity, the balance quantity can be sold or disposed of by the power station as may be possible;

Provided that the fly ash obtained from the thermal power station should be utilized only for the purpose for which it was obtained from the thermal power station or plant failing which no fly ash shall be made available to the defaulting users.

provided further that the restriction to provide 20 % of dry ESP fly ash free of cost shall not apply to those thermal power plants which are able to utilise 100 % fly ash in the prescribed manner."

It is clarified that if the Thermal Power Plant (TPP) has its own fly ash based products manufacturing units and is able to utilize entire quantity of fly ash generated, then the TPP need not give 20 % dry fly ash at free of cost.

This issue with the approval of Competent Authority.

*[Handwritten signature]*

*[Handwritten signature]*  
(E.Thirunavukharasu)  
Joint Director

To

1. The Joint Secretary, Ministry of Power, Rafi Marg, Sansad Marg Area, New Delhi, Delhi 110001
2. The Member Secretary, SPCBs/PCCs

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| S.N. | Category  | Stations   | Remarks  |
|------|---|--|--|
| 1    | Stations with <b>100 % Ash Utilization</b> and <b>no expenditure</b> on transportation        | Dadri, Solapur, Jhajjar, Vallur, Barauni, Kudgi  | High Ash Demand Stations.  |
| 2    | Stations with <b>100 % Ash Utilization</b> and <b>expenditure</b> on transportation           | Barh, Mouda, Simhadri, Tanda, Unchahar, Farakka, Kahalgaon, Ramagundum, Bhilai, Kanti, Durgapur, Rourkela                          | Medium Ash Demand Stations (able to achieve 100 % Ash Utilization through free ash transportation)     |
| 3    | Stations with Ash Utilization <b>less than 100 %</b> and <b>expenditure</b> on transportation | Gadarwara, Khargone, Bongaigaon, Darlipalli, Vindhyachal, Nabinagar, Korba, Lara, Rihand, Singrauli, Sipat, Talcher-K, BRBCL, Meja | Low Ash Demand Stations (not able to achieve 100 % Ash Utilization even after free Ash transportation) |

| Period     |                      | Pond Ash             |                       |                     |   |                           |   |   |  |      |        | Dry Fly Ash                                  |                                  |  |  |  |      | Total |               |               | Total          |                 |  |
|------------|----------------------|----------------------|-----------------------|---------------------|---|---------------------------|---|---|--|------|--------|--|----------------------------------|--|--|--|------|-------|---------------|---------------|----------------|-----------------|--|
|            |                      | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (LMT) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III (LMT) | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %      | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %     | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |
| 2010       | 2011                 |                      |                       |                     |   |                           |   |   |  |      |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2011       | 2012                 |                      |                       |                     |   |                           |   |   |  |      |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2012       | 2013                 |                      |                       |                     |   |                           |   |   |  |      |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2013       | 2014                 |                      |                       |                     |   |                           |   |   |  |      |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2014       | 2015                 |                      |                       |                     |   |                           |   |   |  |      |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2015       | 2016                 |                      |                       |                     |   |                           |   |   |  |      |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2016       | 2017                 | 4.97                 | 7.22                  | 145.20              | 0.00                                      | 0.00                      | 5.45  | 0.00  | 0.00   | 5.45 | 109.58 | 1.49   | 0.00                             | 0.28   | 0.00   | 0.00   | 1.77 | 35.62 | 1.49          | 5.73          | 0.00           | 0.00            | 0.00   |
| 2017       | 2018                 | 4.40                 | 4.60                  | 104.45              | 0.00                                      | 0.00                      | 3.52  | 0.00  | 0.00   | 3.52 | 79.93  | 1.08   | 0.00                             | 0.00   | 0.00   | 0.00   | 1.08 | 24.52 | 1.08          | 3.52          | 0.00           | 0.00            | 0.00   |
| 2018       | 2019                 | 4.44                 | 1.65                  | 37.22               | 0.00                                      | 0.00                      | 0.43  | 0.00  | 0.00   | 0.43 | 9.77   | 0.86   | 0.00                             | 0.36   | 0.00   | 0.00   | 1.22 | 27.45 | 0.86          | 0.79          | 0.00           | 0.00            | 0.00   |
| 2019       | 2020                 | 3.72                 | 5.73                  | 153.78              | 0.00                                      | 0.00                      | 4.45  | 0.00  | 0.00   | 4.45 | 119.41 | 0.82   | 0.00                             | 0.46   | 0.00   | 0.00   | 1.28 | 34.37 | 0.82          | 4.91          | 0.00           | 0.00            | 0.00   |
| 2020       | 2021                 | 3.59                 | 6.55                  | 182.45              | 0.00                                      | 0.00                      | 5.63  | 0.00  | 0.00   | 5.63 | 156.82 | 0.16   | 0.00                             | 0.76   | 0.00   | 0.00   | 0.92 | 25.63 | 0.16          | 6.39          | 0.00           | 0.00            | 0.00   |
| 2021       | 2022                 | 4.20                 | 3.54                  | 84.29               | 0.00                                      | 0.00                      | 2.13  | 0.00  | 0.00   | 2.13 | 50.71  | 0.17   | 0.00                             | 1.24   | 0.00   | 0.00   | 1.41 | 33.57 | 0.17          | 3.37          | 0.00           | 0.00            | 0.00   |
| 2021       | 2022 (Till November) | 2.77                 | 1.82                  | 65.70               | 0.00                                      | 0.00                      | 0.81  | 0.00  | 0.00   | 0.81 | 29.24  | 0.12   | 0.00                             | 0.89   | 0.00   | 0.00   | 1.01 | 36.46 | 0.12          | 1.70          | 0.00           | 0.00            | 0.00   |
| 2022       | 2023 (Till November) | 2.72                 | 4.93                  | 181.25              | 0.00                                      | 0.00                      | 4.05  | 0.00  | 0.00   | 4.05 | 148.90 | 0.02   | 0.00                             | 0.86   | 0.00   | 0.00   | 0.88 | 32.35 | 0.02          | 4.91          | 0.00           | 0.00            | 0.00   |
| 01.04.2021 | 30.09.2021           | 2.02                 | 1.56                  | 77.23               | 0.00                                      | 0.00                      | 0.81  | 0.00  | 0.00   | 0.81 | 40.10  | 0.40   | 0.00                             | 0.35   | 0.00   | 0.00   | 0.75 | 37.13 | 0.40          | 1.16          | 0.00           | 0.00            | 0.00   |
| 01.10.2021 | 31.01.2022           | 1.44                 | 0.79                  | 54.86               | 0.00                                      | 0.00                      | 0.42  | 0.00  | 0.00   | 0.42 | 29.17  | 0.06   | 0.00                             | 0.31   | 0.00   | 0.00   | 0.37 | 25.69 | 0.06          | 0.73          | 0.00           | 0.00            | 0.00   |
| 01.02.2022 | 28.02.2022           | 0.33                 | 0.51                  | 154.55              | 0.00                                      | 0.00                      | 0.42  | 0.00  | 0.00   | 0.42 | 127.27 | 0.00   | 0.00                             | 0.09   | 0.00   | 0.00   | 0.09 | 27.27 | 0.00          | 0.51          | 0.00           | 0.00            | 0.00   |
| 01.03.2022 | 31.03.2022           | 2.35                 | 3.68                  | 156.86              | 0.00                                      | 0.00                      | 3.03  | 0.00  | 0.00   | 3.03 | 129.17 | 0.65   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.65 | 27.69 | 0.65          | 3.03          | 0.00           | 0.00            | 0.00   |
| 01.09.2022 | Till date Dec' 22    | 0.84                 | 0.85                  | 101.15              | 0.00                                      | 0.00                      | 0.48  | 0.00  | 0.00   | 0.48 | 57.02  | 0.06   | 0.00                             | 0.31   | 0.00   | 0.00   | 0.37 | 44.13 | 0.06          | 0.79          | 0.00           | 0.00            | 0.00   |

Ash production started from FY 2016-17 after formation of NSPCL

*NSPCL Rowkela*

|   |                      | Pond Ash             |                       |                     |   |                           |  |   |  |      |        | Dry Fly Ash                                  |                                  |  |  |  | Total |       |              | Total         |                |                 |  |
|---|----------------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|--|------|--------|--|----------------------------------|--|--|--|-------|-------|--------------|---------------|----------------|-----------------|--|
| Period  |                      | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %      | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %     | Step-I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |
| 2009  | 2010                 |                      |                       |                     |   |                           |  |   |  |      |        |  |                                  |  |  |  |       |       |              |               |                |                 |  |
| 2010  | 2011                 |                      |                       |                     |   |                           |  |   |  |      |        |  |                                  |  |  |  |       |       |              |               |                |                 |  |
| 2011  | 2012                 |                      |                       |                     |   |                           |  |   |  |      |        |  |                                  |  |  |  |       |       |              |               |                |                 |  |
| 2012  | 2013                 |                      |                       |                     |   |                           |  |   |  |      |        |  |                                  |  |  |  |       |       |              |               |                |                 |  |
| 2013  | 2014                 |                      |                       |                     |   |                           |  |   |  |      |        |  |                                  |  |  |  |       |       |              |               |                |                 |  |
| 2014  | 2015                 |                      |                       |                     |   |                           |  |   |  |      |        |  |                                  |  |  |  |       |       |              |               |                |                 |  |
| 2015  | 2016                 |                      |                       |                     |   |                           |  |   |  |      |        |  |                                  |  |  |  |       |       |              |               |                |                 |  |
| Ash Production started from FY 2016-17 after formation of NSPCL |                      |                      |                       |                     |   |                           |  |   |  |      |        |  |                                  |  |  |  |       |       |              |               |                |                 |  |
| 2016  | 2017                 | 2.67                 | 3.01                  | 112.61              | 0.00                                      | 0.00                      | 0.35   | 0.00  | 0.00   | 0.35 | 13.09  | 1.97   | 12.58                            | 0.69   | 0.00   | 0.00   | 2.66  | 99.52 | 1.97         | 1.04          | 0.00           | 12.58           | 0.00   |
| 2017  | 2018                 | 2.73                 | 2.05                  | 74.97               | 0.00                                      | 0.00                      | 0.96   | 0.00  | 0.00   | 0.96 | 35.16  | 1.08   | 22.71                            | 0.00   | 0.00   | 0.00   | 1.08  | 39.56 | 1.08         | 0.96          | 0.00           | 22.71           | 0.00   |
| 2018  | 2019                 | 2.53                 | 2.48                  | 97.68               | 0.00                                      | 0.00                      | 1.42   | 0.00  | 0.00   | 1.42 | 55.86  | 1.06   | 44.36                            | 0.00   | 0.00   | 0.00   | 1.06  | 41.82 | 1.06         | 1.42          | 0.00           | 44.36           | 0.00   |
| 2019  | 2020                 | 2.25                 | 2.29                  | 101.77              | 0.00                                      | 0.00                      | 2.29   | 0.00  | 0.00   | 2.29 | 101.77 | 0.00   | 199.08                           | 0.00   | 0.00   | 0.00   | 0.00  | 0.00  | 0.00         | 2.29          | 0.00           | 199.08          | 0.00   |
| 2020  | 2021                 | 2.01                 | 1.92                  | 95.52               | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | 0.00   | 0.57   | 158.52                           | 1.35   | 0.00   | 0.00   | 1.92  | 95.52 | 0.57         | 1.35          | 0.00           | 158.52          | 0.00   |
| 2021  | 2022                 | 2.77                 | 2.65                  | 95.67               | 0.00                                      | 0.00                      | 1.40   | 0.00  | 0.00   | 1.40 | 50.54  | 0.21   | 67.62                            | 1.04   | 0.00   | 0.00   | 1.25  | 45.13 | 0.21         | 2.44          | 0.00           | 67.62           | 0.00   |
| 2021.00   | 2022 (Till November) | 1.80                 | 0.70                  | 38.89               | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | 0.00   | 0.09   | 28.98                            | 0.61   | 0.00   | 0.00   | 0.70  | 38.89 | 0.09         | 0.61          | 0.00           | 28.98           | 0.00   |
| 2022.00   | 2023 (Till November) | 2.15                 | 2.71                  | 126.05              | 0.00                                      | 0.00                      | 1.72   | 0.00  | 0.00   | 1.72 | 80.00  | 0.39   | 92.34                            | 0.60   | 0.00   | 0.00   | 0.99  | 46.05 | 0.39         | 2.32          | 0.00           | 92.34           | 0.00   |
| 01.04.2021  | 30.09.2021           | 1.52                 | 2.15                  | 141.45              | 0.00                                      | 0.00                      | 1.42   | 0.00  | 0.00   | 1.42 | 51.26  | 0.35   | 37.39                            | 0.38   | 0.00   | 0.00   | 0.73  | 48.03 | 0.35         | 1.80          | 0.00           | 37.39           | 0.00   |
| 01.10.2021  | 31.01.2022           | 0.95                 | 0.41                  | 43.40               | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | 0.07   | 0.01   | 0.40                             | 0.40   | 0.00   | 0.00   | 0.41  | 43.20 | 0.01         | 0.40          | 0.00           | 0.40            | 0.00   |
| 01.02.2022  | 28.02.2022           | 0.23                 | 0.71                  | 302.02              | 0.00                                      | 0.00                      | 0.58   | 0.00  | 0.00   | 0.58 | 20.90  | 0.03   | 9.63                             | 0.10   | 0.00   | 0.00   | 0.13  | 55.39 | 0.03         | 0.68          | 0.00           | 9.63            | 0.00   |
| 01.03.2022  | 31.08.2022           | 1.57                 | 2.83                  | 180.23              | 0.00                                      | 0.00                      | 2.08   | 0.00  | 0.00   | 2.08 | 50.54  | 0.40   | 87.62                            | 0.35   | 0.00   | 0.00   | 0.75  | 47.79 | 0.40         | 2.43          | 0.00           | 87.62           | 0.00   |
| 01.09.2022  | Till date Dec' 22    | 0.84                 | 0.85                  | 101.15              | 0.00                                      | 0.00                      | 0.48   | 0.00  | 0.00   | 0.48 | 57.02  | 0.06   | 14.21                            | 0.31   | 0.00   | 0.00   | 0.37  | 44.13 | 0.06         | 0.79          | 0.00           | 14.21           | 0.00   |

NSPCL Durgapur

| Period     |                      | Pond Ash             |                       |                     |   |                           |  |   |  |       |       | Dry Fly Ash                                  |                                  |  |  |  |       | Total |               |               | Total          |                 |   |
|------------|----------------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|--|-------|-------|--|----------------------------------|--|--|--|-------|-------|---------------|---------------|----------------|-----------------|---|
|            |                      | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %     | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %     | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transport ation cost by NTPC (Lakhs) |
| 2009       | 2010                 |                      |                       |                     |   |                           |  |   |  |       |       |  |                                  |  |  |  |       |       |               |               |                |                 |   |
| 2010       | 2011                 |                      |                       |                     |   |                           |  |   |  |       |       |  |                                  |  |  |  |       |       |               |               |                |                 |   |
| 2011       | 2012                 |                      |                       |                     |   |                           |  |   |  |       |       |  |                                  |  |  |  |       |       |               |               |                |                 |   |
| 2012       | 2013                 |                      |                       |                     |   |                           |  |   |  |       |       |  |                                  |  |  |  |       |       |               |               |                |                 |   |
| 2013       | 2014                 |                      |                       |                     |   |                           |  |   |  |       |       |  |                                  |  |  |  |       |       |               |               |                |                 |   |
| 2014       | 2015                 |                      |                       |                     |   |                           |  |   |  |       |       |  |                                  |  |  |  |       |       |               |               |                |                 |   |
| 2015       | 2016                 |                      |                       |                     |   |                           |  |   |  |       |       |  |                                  |  |  |  |       |       |               |               |                |                 |   |
| 2016       | 2017                 | 17.02                | 7.27                  | 42.71               | 0.00                                      | 0.00                      | 4.61   | 0.00  | 0.00   | 4.61  | 27.09 | 1.97   | 212.00                           | 0.69   | 0.00   | 0.00   | 2.66  | 15.63 | 1.97          | 5.30          | 0.00           | 212.00          | 0.00  |
| 2017       | 2018                 | 18.74                | 12.18                 | 64.99               | 0.00                                      | 0.00                      | 5.97   | 0.00  | 0.00   | 5.97  | 31.86 | 3.78   | 415.96                           | 2.43   | 0.00   | 0.00   | 6.21  | 33.14 | 3.78          | 8.40          | 0.00           | 415.96          | 0.00  |
| 2018       | 2019                 | 22.57                | 15.24                 | 67.52               | 0.00                                      | 0.00                      | 9.84   | 0.00  | 0.00   | 9.84  | 43.60 | 2.92   | 229.32                           | 2.48   | 0.00   | 0.00   | 5.40  | 23.93 | 2.92          | 12.32         | 0.00           | 229.32          | 0.00  |
| 2019       | 2020                 | 17.33                | 21.11                 | 121.81              | 0.00                                      | 0.00                      | 12.91  | 0.00  | 0.00   | 12.91 | 74.50 | 5.88   | 243.94                           | 2.32   | 0.00   | 0.00   | 8.20  | 47.32 | 5.88          | 15.23         | 0.00           | 243.94          | 0.00  |
| 2020       | 2021                 | 12.77                | 15.68                 | 122.79              | 0.00                                      | 0.00                      | 9.37   | 0.00  | 0.00   | 9.37  | 73.38 | 4.58   | 276.85                           | 1.73   | 0.00   | 0.00   | 6.31  | 49.41 | 4.58          | 11.10         | 0.00           | 276.85          | 0.00  |
| 2021       | 2022                 | 24.77                | 19.11                 | 77.15               | 0.00                                      | 0.00                      | 7.92   | 0.00  | 0.00   | 7.92  | 31.97 | 9.11   | 1057.96                          | 2.08   | 0.00   | 0.00   | 11.19 | 45.18 | 9.11          | 10.00         | 0.00           | 1057.96         | 0.00  |
| 2021       | 2022 (Till November) | 14.80                | 12.88                 | 87.03               | 0.00                                      | 0.00                      | 5.36   | 0.00  | 0.00   | 5.36  | 36.22 | 5.44   | 631.76                           | 2.08   | 0.00   | 0.00   | 7.52  | 50.81 | 5.44          | 7.44          | 0.00           | 631.76          | 0.00  |
| 2022       | 2023 (Till November) | 20.17                | 14.17                 | 70.25               | 0.00                                      | 0.00                      | 6.57   | 0.00  | 0.00   | 6.57  | 32.57 | 7.6  | 2806.48                          | 0.00   | 0.00   | 0.00   | 7.60  | 37.68 | 7.60          | 6.57          | 0.00           | 2806.48         | 0.00  |
| 01.04.2021 | 30.09.2021           | 11.26                | 11.25                 | 99.91               | 0.00                                      | 0.00                      | 5.35   | 0.00  | 0.00   | 5.35  | 47.51 | 4.12   | 478.46                           | 1.78   | 0.00   | 0.00   | 5.90  | 52.40 | 4.12          | 7.13          | 0.00           | 478.46          | 0.00  |
| 01.10.2021 | 31.01.2022           | 8.22                 | 3.91                  | 47.57               | 0.00                                      | 0.00                      | 0.39   | 0.00  | 0.00   | 0.39  | 4.73  | 3.22   | 373.94                           | 0.3  | 0.00   | 0.00   | 3.52  | 42.84 | 3.22          | 0.69          | 0.00           | 373.94          | 0.00  |
| 01.02.2022 | 28.02.2022           | 2.15                 | 1.72                  | 79.89               | 0.00                                      | 0.00                      | 1.11   | 0.00  | 0.00   | 1.11  | 51.50 | 0.61   | 225.26                           | 0  | 0.00   | 0.00   | 0.61  | 28.39 | 0.61          | 1.11          | 0.00           | 225.26          | 0.00  |
| 01.03.2022 | 31.03.2022           | 15.19                | 11.99                 | 78.92               | 0.00                                      | 0.00                      | 5.50   | 0.00  | 0.00   | 5.50  | 36.21 | 6.49   | 2396.59                          | 0  | 0.00   | 0.00   | 6.49  | 42.71 | 6.49          | 5.50          | 0.00           | 2396.59         | 0.00  |
| 01.09.2022 | Till date Dec' 22    | 7.82                 | 4.41                  | 56.40               | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00  | 0.01  | 2.28   | 841.94                           | 2.13   | 0.00   | 0.00   | 4.41  | 56.39 | 2.28          | 2.13          | 0.00           | 841.94          | 0.00  |

Vallur

| Period (PP2) |                   | Pond Ash                            |                       |                     |   |                           |   |   |  |      |       | Dry Fly Ash                                  |                                  |   |  |  |      | Total |               |               | Total          |                 |  |  |
|--------------|-------------------|-------------------------------------|-----------------------|---------------------|---|---------------------------|---|---|--|------|-------|--|----------------------------------|---|--|--|------|-------|---------------|---------------|----------------|-----------------|--|--|
|              |                   | Ash Generation (LMT)                | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %     | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II -Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %     | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |  |
| 2009         | 2010              | Ash Production started from FY 2021 |                       |                     |   |                           |   |   |  |      |       |  |                                  |   |  |  |      |       |               |               |                |                 |  |  |
| 2010         | 2011              |                                     |                       |                     |   |                           |   |   |  |      |       |  |                                  |   |  |  |      |       |               |               |                |                 |  |  |
| 2011         | 2012              |                                     |                       |                     |   |                           |   |   |  |      |       |  |                                  |   |  |  |      |       |               |               |                |                 |  |  |
| 2012         | 2013              |                                     |                       |                     |   |                           |   |   |  |      |       |  |                                  |   |  |  |      |       |               |               |                |                 |  |  |
| 2013         | 2014              |                                     |                       |                     |   |                           |   |   |  |      |       |  |                                  |   |  |  |      |       |               |               |                |                 |  |  |
| 2014         | 2015              |                                     |                       |                     |   |                           |   |   |  |      |       |  |                                  |   |  |  |      |       |               |               |                |                 |  |  |
| 2015         | 2016              |                                     |                       |                     |   |                           |   |   |  |      |       |  |                                  |   |  |  |      |       |               |               |                |                 |  |  |
| 2016         | 2017              |                                     |                       |                     |   |                           |   |   |  |      |       |  |                                  |   |  |  |      |       |               |               |                |                 |  |  |
| 2017         | 2018              |                                     |                       |                     |   |                           |   |   |  |      |       |  |                                  |   |  |  |      |       |               |               |                |                 |  |  |
| 2018         | 2019              |                                     |                       |                     |   |                           |   |   |  |      |       |  |                                  |   |  |  |      |       |               |               |                |                 |  |  |
| 2019         | 2020              | 10.25                               | 5.72                  | 55.80               | 0.00                                      | 0.00                      | 1.85  | 0.00  | 0.00   | 1.85 | 18.05 | 3.82   | 401.00                           | 0.05  | 0.00   | 0.00   | 3.87 | 37.78 | 3.82          | 1.90          | 0.00           | 401.00          | 0.00   |  |
| 01.04.2021   | 30.09.2021        | 10.65                               | 7.34                  | 68.92               | 0.00                                      | 0.00                      | 2.88  | 0.00  | 0.00   | 2.88 | 27.04 | 4.45   | 467.25                           | 0.00  | 0.00   | 0.00   | 4.45 | 41.78 | 4.45          | 2.88          | 0.00           | 467.25          | 0.00   |  |
| 01.10.2021   | 31.01.2022        | 5.56                                | 4.25                  | 76.48               | 0.00                                      | 0.00                      | 0.80  | 0.00  | 0.00   | 0.80 | 14.39 | 3.40   | 359.01                           | 0.06  | 0.00   | 0.00   | 3.46 | 62.22 | 3.40          | 0.86          | 0.00           | 359.01          | 0.00   |  |
| 01.02.2022   | 28.02.2022        | 0.94                                | 0.75                  | 80.11               | 0.00                                      | 0.00                      | 0.13  | 0.00  | 0.00   | 0.13 | 13.84 | 0.61   | 64.41                            | 0.01  | 0.00   | 0.00   | 0.62 | 65.99 | 0.61          | 0.14          | 0.00           | 64.41           | 0.00   |  |
| 01.03.2022   | 31.08.2022        | 5.97                                | 3.87                  | 64.82               | 0.00                                      | 0.00                      | 0.60  | 0.01  | 0.00   | 0.61 | 10.22 | 3.25   | 92.00                            | 0.01  | 0.00   | 0.00   | 3.26 | 54.62 | 3.25          | 0.61          | 0.01           | 92.00           | 0.00   |  |
| 01.09.2022   | Till date Dec' 22 | 4.51                                | 2.84                  | 62.97               | 0.00                                      | 0.00                      | 0.17  | 0.70  | 450.00   | 0.87 | 19.28 | 1.92   | 369.77                           | 0.05  | 0.00   | 0.00   | 1.97 | 43.66 | 1.92          | 0.22          | 0.70           | 369.77          | 450.00   |  |

Meja

| Period (PP2) |                      | Pond Ash             |                       |                     |   |                           |  |   |  |        |        | Dry Fly Ash                                  |                                  |  |  |  |      | Total |               |               | Total          |                 |  |
|--------------|----------------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|--|--------|--------|--|----------------------------------|--|--|--|------|-------|---------------|---------------|----------------|-----------------|--|
|              |                      | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT    | %      | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %     | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |
| 2009         | 2010                 | 0.0                  |                       |                     |   |                           |  |   |  |        |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2010         | 2011                 | 0.0                  |                       |                     |   |                           |  |   |  |        |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2011         | 2012                 | 0.0                  |                       |                     |   |                           |  |   |  |        |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2012         | 2013                 | 0.0                  |                       |                     |   |                           |  |   |  |        |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2013         | 2014                 | 0.0                  |                       |                     |   |                           |  |   |  |        |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2014         | 2015                 | 0.0                  |                       |                     |   |                           |  |   |  |        |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2015         | 2016                 | 2.54                 | 0.13                  | 5.25                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.02 | 0.79  | 0.00          | 0.02          | 0.00           | 0.00            | 0.00   |
| 2016         | 2017                 | 2.36                 | 0.70                  | 29.68               | 0.00                                      | 0.00                      | 0.67   | 0.00  | 0.00   | 0.67   | 28.41  | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.03 | 1.23  | 0.00          | 0.70          | 0.00           | 0.00            | 0.00   |
| 2017         | 2018                 | 5.41                 | 1.06                  | 19.59               | 0.00                                      | 0.00                      | 1.03   | 0.00  | 0.00   | 1.03   | 19.03  | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.03 | 0.55  | 0.00          | 1.06          | 0.00           | 0.00            | 0.00   |
| 2018         | 2019                 | 8.12                 | 3.29                  | 40.56               | 0.00                                      | 0.00                      | 3.16   | 0.00  | 0.00   | 3.16   | 38.92  | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.13 | 1.60  | 0.00          | 3.29          | 0.00           | 0.00            | 0.00   |
| 2019         | 2020                 | 8.25                 | 6.24                  | 75.68               | 0.00                                      | 0.00                      | 5.54   | 0.00  | 0.00   | 5.54   | 67.13  | 0.42   | 1.80                             | 0.29   | 0.00   | 0.00   | 0.71 | 8.60  | 0.42          | 5.83          | 0.00           | 1.80            | 0.00   |
| 2020         | 2021                 | 7.10                 | 7.49                  | 105.53              | 0.00                                      | 0.00                      | 5.20   | 1.01  | 0.00   | 6.21   | 87.45  | 0.64   | 2.78                             | 0.63   | 0.00   | 0.00   | 1.27 | 17.89 | 0.64          | 5.83          | 1.01           | 2.78            | 0.00   |
| 2021         | 2022                 | 7.88                 | 13.23                 | 167.89              | 0.00                                      | 0.00                      | 11.98  | 0.00  | 0.00   | 11.98  | 152.03 | 0.65   | 255.00                           | 0.60   | 0.00   | 0.00   | 1.25 | 15.86 | 0.65          | 12.58         | 0.00           | 255.00          | 0.00   |
| 2021         | 2022 (Till November) | 5.31                 | 6.08                  | 114.50              | 0.00                                      | 0.00                      | 5.34   | 0.00  | 0.00   | 5.34   | 100.56 | 0.39   | 153.00                           | 0.35   | 0.00   | 0.00   | 0.74 | 13.94 | 0.39          | 5.69          | 0.00           | 153.00          | 0.00   |
| 2022         | 2023 (Till November) | 4.87                 | 6.10                  | 125.26              | 0.00                                      | 0.00                      | 5.36   | 0.00  | 0.00   | 5.36   | 110.06 | 0.52   | 231.34                           | 0.23   | 0.00   | 0.00   | 0.75 | 15.40 | 0.52          | 5.59          | 0.00           | 231.34          | 0.00   |
| 01.04.2021   | 30.09.2021           | 4.10                 | 5.53                  | 134.99              | 0.00                                      | 0.00                      | 4.23   | 0.74  | 249.00   | 4.97   | 121.22 | 0.30   | 117.69                           | 0.25   | 0.00   | 0.00   | 0.55 | 13.41 | 0.30          | 4.48          | 0.74           | 117.69          | 249.00   |
| 01.10.2021   | 31.01.2022           | 2.44                 | 4.42                  | 181.70              | 0.00                                      | 0.00                      | 0.93   | 3.08  |  | 4.01   | 164.66 | 0.19   | 74.54                            | 0.23   | 0.00   | 0.00   | 0.00 | 0.42  | 17.25         | 0.19          | 1.16           | 3.08            | 74.54  |
| 01.02.2022   | 28.02.2022           | 0.64                 | 1.76                  | 276.94              | 0.00                                      | 0.00                      | 0.00   | 1.64  | 1.64   | 257.63 | 0.06   | 24.32  | 0.06                             | 0.00   | 0.00   | 0.00   | 0.12 | 19.16 | 0.06          | 0.06          | 1.64           | 24.32           | 0.00   |
| 01.03.2022   | 31.08.2022           | 3.58                 | 6.37                  | 178.04              | 0.00                                      | 0.00                      | 0.00   | 5.67  | 0.06   | 5.67   | 158.46 | 0.42   | 186.85                           | 0.28   | 0.00   | 0.00   | 0.70 | 19.58 | 0.42          | 0.28          | 5.67           | 186.85          | 0.06   |
| 01.09.2022   | Till date Dec' 22    | 2.58                 | 1.86                  | 71.88               | 0.00                                      | 0.00                      | 1.51   | 0.16  | 1.67   | 64.52  | 0.19   | 84.53  | 0.00                             | 0.00   | 0.00   | 0.00   | 0.19 | 7.36  | 0.19          | 1.51          | 0.16           | 84.53           | 0.00   |

Kanti

| Period (PP2) |                      | Pond Ash             |                       |                     |   |                           |  |   |  |       |       | Dry Fly Ash                                  |                                  |  |  |  |      | Total |              |               | Total          |                 |  |         |      |
|--------------|----------------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|--|-------|-------|--|----------------------------------|--|--|--|------|-------|--------------|---------------|----------------|-----------------|--|---------|------|
|              |                      | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %     | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %     | Step-I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |         |      |
| 2009         | 2010                 |                      |                       |                     |   |                           |  |   |  |       |       |  |                                  |  |  |  |      |       |              |               |                |                 |  |         |      |
| 2010         | 2011                 |                      |                       |                     |   |                           |  |   |  |       |       |  |                                  |  |  |  |      |       |              |               |                |                 |  |         |      |
| 2011         | 2012                 |                      |                       |                     |   |                           |  |   |  |       |       |  |                                  |  |  |  |      |       |              |               |                |                 |  |         |      |
| 2012         | 2013                 |                      |                       |                     |   |                           |  |   |  |       |       |  |                                  |  |  |  |      |       |              |               |                |                 |  |         |      |
| 2013         | 2014                 |                      |                       |                     |   |                           |  |   |  |       |       |  |                                  |  |  |  |      |       |              |               |                |                 |  |         |      |
| 2014         | 2015                 |                      |                       |                     |   |                           |  |   |  |       |       |  |                                  |  |  |  |      |       |              |               |                |                 |  |         |      |
| 2015         | 2016                 |                      |                       |                     |   |                           |  |   |  |       |       |  |                                  |  |  |  |      |       |              |               |                |                 |  |         |      |
| 2016         | 2017                 | 13.19                | 10.02                 | 75.92               | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00   | 0.00                             | 8.57   | 3126.83  | 1.45   | 0.00 | 0.00  | 10.02        | 75.92         | 8.57           | 1.45            | 0.00   | 3126.83 | 0.00 |
| 2017         | 2018                 | 16.20                | 11.17                 | 68.93               | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00   | 0.00                             | 7.52   | 2830.85  | 3.65   | 0.00 | 0.00  | 11.17        | 68.93         | 7.52           | 3.65            | 0.00   | 2830.85 | 0.00 |
| 2018         | 2019                 | 15.11                | 15.69                 | 103.79              | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00   | 0.00                             | 11.94  | 2932.07  | 3.74   | 0.00 | 0.00  | 15.69        | 103.79        | 11.94          | 3.74            | 0.00   | 2932.07 | 0.00 |
| 2019         | 2020                 | 8.62                 | 16.43                 | 190.52              | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00   | 0.00                             | 12.24  | 2731.25  | 4.19   | 0.00 | 0.00  | 16.43        | 190.52        | 12.24          | 4.19            | 0.00   | 2731.25 | 0.00 |
| 2020         | 2021                 | 8.46                 | 19.02                 | 224.82              | 0.00                                      | 0.00                      | 2.52   | 0.00  | 0.00   | 2.52  | 29.79 | 12.99  | 2803.96                          | 3.51   | 0.00   | 0.00   | 0.00 | 0.00  | 16.50        | 195.04        | 12.99          | 6.03            | 0.00   | 2803.96 | 0.00 |
| 2021         | 2022                 | 16.42                | 26.16                 | 159.32              | 0.00                                      | 0.00                      | 11.28  | 0.00  | 0.00   | 11.28 | 68.70 | 10.19  | 4661.74                          | 4.69   | 0.00   | 0.00   | 0.00 | 0.00  | 14.88        | 90.62         | 10.19          | 15.97           | 0.00   | 4661.74 | 0.00 |
| 2021         | 2022 (Till November) | 10.09                | 8.75                  | 86.72               | 0.00                                      | 0.00                      | 0.05   | 0.00  | 0.00   | 0.05  | 0.50  | 5.48   | 2507.00                          | 3.22   | 0.00   | 0.00   | 0.00 | 0.00  | 8.70         | 86.22         | 5.48           | 3.27            | 0.00   | 2507.00 | 0.00 |
| 2022         | 2023 (Till November) | 11.74                | 13.63                 | 116.10              | 0.00                                      | 0.00                      | 3.22   | 0.00  | 0.00   | 3.22  | 27.43 | 8.32   | 4386.34                          | 2.09   | 0.00   | 0.00   | 0.00 | 0.00  | 10.41        | 88.67         | 8.32           | 5.31            | 0.00   | 4386.34 | 0.00 |
| 01.04.2021   | 30.09.2021           | 7.00                 | 6.42                  | 91.71               | 0.00                                      | 0.00                      | 0.05   | 0.00  | 0.00   | 0.05  | 0.71  | 3.60   | 1646.93                          | 2.76   | 0.00   | 0.00   | 0.00 | 0.00  | 6.36         | 90.86         | 3.60           | 2.81            | 0.00   | 1646.93 | 0.00 |
| 01.10.2021   | 31.01.2022           | 6.25                 | 4.87                  | 77.92               | 0.28                                      | 46.90                     | 0.00   | 0.00  | 0.00   | 0.28  | 4.51  | 4.57   | 2090.69                          | 0.00   | 0.00   | 0.00   | 0.00 | 0.00  | 4.57         | 73.12         | 4.85           | 0.00            | 0.00   | 2137.59 | 0.00 |
| 01.02.2022   | 28.02.2022           | 1.14                 | 1.67                  | 146.40              | 0.69                                      | 114.50                    | 0.00   | 0.00  | 0.00   | 0.69  | 60.53 | 0.98   | 446.96                           | 0.00   | 0.00   | 0.00   | 0.00 | 0.00  | 0.98         | 85.70         | 1.67           | 0.00            | 0.00   | 561.46  | 0.00 |
| 01.03.2022   | 31.08.2022           | 10.84                | 11.35                 | 104.70              | 4.13                                      | 681.30                    | 0.00   | 0.00  | 0.00   | 4.13  | 38.10 | 7.23   | 2749.90                          | 0.00   | 0.00   | 0.00   | 0.00 | 0.00  | 7.23         | 66.70         | 11.36          | 0.00            | 0.00   | 3431.20 | 0.00 |
| 01.09.2022   | Till date Dec' 22    | 4.25                 | 6.07                  | 142.82              | 2.68                                      | 443.50                    | 0.00   | 0.00  | 0.00   | 2.68  | 63.06 | 3.39   | 1848.80                          | 0.00   | 0.00   | 0.00   | 0.00 | 0.00  | 3.39         | 79.76         | 6.07           | 0.00            | 0.00   | 2292.30 | 0.00 |

*Thajjar*

| Period (PP2) |                   | Pond Ash             |                       |                     |   |                           |  |   |  |      |       | Dry Fly Ash                                  |                                  |  |  |  |      | Total |               |               | Total          |                 |  |  |
|--------------|-------------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|--|------|-------|--|----------------------------------|--|--|--|------|-------|---------------|---------------|----------------|-----------------|--|--|
|              |                   | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %     | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %     | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |  |
| 2009         | 2010              |                      |                       |                     |   |                           |  |   |  |      |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |  |
| 2010         | 2011              |                      |                       |                     |   |                           |  |   |  |      |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |  |
| 2011         | 2012              |                      |                       |                     |   |                           |  |   |  |      |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |  |
| 2012         | 2013              |                      |                       |                     |   |                           |  |   |  |      |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |  |
| 2013         | 2014              |                      |                       |                     |   |                           |  |   |  |      |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |  |
| 2014         | 2015              |                      |                       |                     |   |                           |  |   |  |      |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |  |
| 2015         | 2016              |                      |                       |                     |   |                           |  |   |  |      |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |  |
| 2016         | 2017              |                      |                       |                     |   |                           |  |   |  |      |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |  |
| 2017         | 2018              |                      |                       |                     |   |                           |  |   |  |      |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |  |
| 2018         | 2019              |                      |                       |                     |   |                           |  |   |  |      |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |  |
| 2019         | 2020              | 11.14                | 5.55                  | 49.82               | 0.00                                      | 0.00                      | 0.03   | 0.00  | 0.00   | 0.03 | 0.27  | 5.30   | 0.00                             | 0.22   | 0.00   | 0.00   | 5.52 | 49.55 | 5.30          | 0.25          | 0.00           | 0.00            | 0.00   |  |
| 2020         | 2021              | 12.98                | 3.82                  | 29.43               | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | 0.00  | 3.20   | 0.00                             | 0.62   | 0.00   | 0.00   | 3.82 | 29.43 | 3.20          | 0.62          | 0.00           | 0.00            | 0.00   |  |
| 2021         | 2022              | 16.11                | 9.12                  | 56.61               | 0.00                                      | 0.00                      | 5.29   | 0.00  | 0.00   | 5.29 | 32.84 | 3.53   | 0.00                             | 0.30   | 0.00   | 0.00   | 3.83 | 23.77 | 3.53          | 5.59          | 0.00           | 0.00            | 0.00   |  |
| 2021         | 2022 Till Nov     | 9.33                 | 2.82                  | 30.23               | 0.00                                      | 0.00                      | 0.08   | 0.00  | 0.00   | 0.08 | 0.86  | 2.58   | 0.00                             | 0.16   | 0.00   | 0.00   | 2.74 | 29.37 | 2.58          | 0.24          | 0.00           | 0.00            | 0.00   |  |
| 2022         | 2023 Till Nov     | 16.87                | 9.17                  | 54.36               | 0.00                                      | 0.00                      | 5.74   | 0.00  | 0.00   | 5.74 | 34.02 | 3.21   | 0.00                             | 0.22   | 0.00   | 0.00   | 3.43 | 20.33 | 3.21          | 5.96          | 0.00           | 0.00            | 0.00   |  |
| 01.04.2021   | 30.09.2021        | 6.75                 | 3.50                  | 51.85               | 0.00                                      | 0.00                      | 1.20   | 0.00  | 0.00   | 1.20 | 17.78 | 2.21   | 0.00                             | 0.09   | 0.00   | 0.00   | 2.30 | 34.07 | 2.21          | 1.29          | 0.00           | 0.00            | 0.00   |  |
| 01.10.2021   | 31.01.2022        | 5.79                 | 4.00                  | 69.04               | 0.00                                      | 0.00                      | 2.96   | 0.00  | 0.00   | 2.96 | 51.08 | 0.89   | 0.00                             | 0.15   | 0.00   | 0.00   | 1.04 | 17.96 | 0.89          | 3.11          | 0.00           | 0.00            | 0.00   |  |
| 01.02.2022   | 28.02.2022        | 1.47                 | 1.62                  | 110.13              | 0.00                                      | 0.00                      | 1.43   | 0.00  | 0.00   | 1.43 | 97.21 | 0.17   | 0.00                             | 0.02   | 0.00   | 0.00   | 0.19 | 12.92 | 0.17          | 1.45          | 0.00           | 0.00            | 0.00   |  |
| 01.03.2022   | 31.08.2022        | 10.26                | 7.75                  | 75.56               | 0.00                                      | 0.00                      | 4.91   | 0.00  | 0.00   | 4.91 | 47.88 | 2.65   | 0.00                             | 0.19   | 0.00   | 0.00   | 2.84 | 27.68 | 2.65          | 5.10          | 0.00           | 0.00            | 0.00   |  |
| 01.09.2022   | Till date Dec' 22 | 4.63                 | 2.47                  | 53.31               | 0.00                                      | 0.00                      | 1.59   | 0.00  | 0.00   | 1.59 | 34.32 | 0.81   | 0.00                             | 0.07   | 0.00   | 0.00   | 0.88 | 18.99 | 0.81          | 1.66          | 0.00           | 0.00            | 0.00   |  |

BRBCL

| Period (PP2) |                   | Pond Ash             |                       |                     |   |                           |  |   |  |      |         | Dry Fly Ash                                  |                                  |  |  |  |       | Total   |               |               | Total          |                 |  |
|--------------|-------------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|--|------|---------|--|----------------------------------|--|--|--|-------|---------|---------------|---------------|----------------|-----------------|--|
|              |                   | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %       | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %       | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |
| 2009         | 2010              | 0.00                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00  | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2010         | 2011              | 0.00                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00  | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2011         | 2012              | 0.00                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00  | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2012         | 2013              | 0.00                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00  | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2013         | 2014              | 0.00                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00  | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2014         | 2015              | 0.00                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00  | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2015         | 2016              | 0.00                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00  | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2016         | 2017              | 0.00                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00  | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2017         | 2018              | 0.00                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00  | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2018         | 2019              | 0.00                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00  | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2019         | 2020              | 1.69                 | 1.70                  | 100.59              | 0.00                                      | 0.00                      | 0.17   | 0.00  | 0.00   | 0.17 | 0.00    | 0.47   | 0.00                             | 1.06   | 0.00   | 1.53   | 90.53 | 0.47    | 1.23          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2020         | 2021              | 1.35                 | 1.05                  | 77.78               | 0.00                                      | 0.00                      | 0.70   | 0.00  | 0.00   | 0.70 | 0.01    | 0.00   | 0.00                             | 0.35   | 0.00   | 0.35   | 25.93 | 0.00    | 1.05          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2021         | 2022              | 1.81                 | 1.08                  | 59.67               | 0.00                                      | 0.00                      | 0.76   | 0.00  | 0.00   | 0.76 | 0.00    | 0.15   | 0.00                             | 0.17   | 0.00   | 0.32   | 17.68 | 0.15    | 0.93          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2021         | 2022 Till Nov     | 1.31                 | 1.00                  | 76.34               | 0.00                                      | 0.00                      | 0.75   | 0.00  | 0.00   | 0.75 | 0.01    | 0.11   | 0.00                             | 0.14   | 0.00   | 0.25   | 19.08 | 0.11    | 0.89          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2022         | 2023 Till Nov     | 0.90                 | 0.40                  | 44.44               | 0.00                                      | 0.00                      | 0.16   | 0.00  | 0.00   | 0.16 | 0.00    | 0.16   | 0.00                             | 0.08   | 0.00   | 0.24   | 26.67 | 0.16    | 0.24          | 0.00          | 0.00           | 0.00            | 0.00   |
| 01.04.2021   | 30.09.2021        | 0.95                 | 0.84                  | 88.42               | 0.00                                      | 0.00                      | 0.63   | 0.00  | 0.00   | 0.63 | 0.01    | 0.08   | 0.00                             | 0.13   | 0.00   | 0.21   | 22.11 | 0.08    | 0.76          | 0.00          | 0.00           | 0.00            | 0.00   |
| 01.10.2021   | 31.01.2022        | 0.59                 | 0.24                  | 40.09               | 0.00                                      | 0.00                      | 0.13   | 0.00  | 0.00   | 0.13 | 0.00    | 0.07   | 0.00                             | 0.04   | 0.00   | 0.11   | 18.76 | 0.07    | 0.17          | 0.00          | 0.00           | 0.00            | 0.00   |
| 01.02.2022   | 28.02.2022        | 0.13                 | 0.01                  | 6.47                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | 0.00    | 0.00   | 0.00                             | 0.01   | 0.00   | 0.01   | 7.65  | 0.00    | 0.01          | 0.00          | 0.00           | 0.00            | 0.00   |
| 01.03.2022   | 31.08.2022        | 0.72                 | 0.24                  | 32.97               | 0.00                                      | 0.00                      | 0.04   | 0.00  | 0.00   | 0.04 | 0.00    | 0.13   | 0.00                             | 0.07   | 0.00   | 0.20   | 27.96 | 0.13    | 0.11          | 0.00          | 0.00           | 0.00            | 0.00   |
| 01.09.2022   | Till date Dec' 22 | 0.32                 | 0.17                  | 52.17               | 0.00                                      | 0.00                      | 0.05   | 0.00  | 0.00   | 0.05 | 0.00    | 0.11   | 0.00                             | 0.01   | 0.00   | 0.12   | 36.99 | 0.11    | 0.06          | 0.00          | 0.00           | 0.00            | 0.00   |

Bhilai - C

|   |                      | Pond Ash              |                     |   |                           |  |   |  |      |      |  | Dry Fly Ash                      |  |  |  |      |      | Total         |               |                | Total           |  |      |
|---|----------------------|-----------------------|---------------------|---|---------------------------|--|---|--|------|------|--|----------------------------------|--|--|--|------|------|---------------|---------------|----------------|-----------------|--|------|
| Period (PP3)  | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %    | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %    | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |      |
| 2009  | 2010                 |                       |                     |   |                           |  |   |  |      |      |  |                                  |  |  |  |      |      |               |               |                |                 |  |      |
| 2010  | 2011                 |                       |                     |   |                           |  |   |  |      |      |  |                                  |  |  |  |      |      |               |               |                |                 |  |      |
| 2011  | 2012                 |                       |                     |   |                           |  |   |  |      |      |  |                                  |  |  |  |      |      |               |               |                |                 |  |      |
| 2012  | 2013                 |                       |                     |   |                           |  |   |  |      |      |  |                                  |  |  |  |      |      |               |               |                |                 |  |      |
| 2013  | 2014                 |                       |                     |   |                           |  |   |  |      |      |  |                                  |  |  |  |      |      |               |               |                |                 |  |      |
| 2014  | 2015                 |                       |                     |   |                           |  |   |  |      |      |  |                                  |  |  |  |      |      |               |               |                |                 |  |      |
| 2015  | 2016                 |                       |                     |   |                           |  |   |  |      |      |  |                                  |  |  |  |      |      |               |               |                |                 |  |      |
| Ash Production started from 2016-17 after NSPCL formation |                      |                       |                     |   |                           |  |   |  |      |      |  |                                  |  |  |  |      |      |               |               |                |                 |  |      |
| 2016  | 2017                 | 10.20                 | 11.18               | 109.62                                    | 0.00                      | 0.00   | 2.22  | 0.00   | 0.00 | 2.22 | 21.73  | 7.44                             | 228.99   | 1.53   | 0.00   | 0.00 | 8.97 | 87.90         | 7.44          | 3.75           | 0.00            | 228.99   | 0.00 |
| 2017  | 2018                 | 9.07                  | 9.63                | 106.12                                    | 0.00                      | 0.00   | 0.99  | 0.00   | 0.00 | 0.99 | 10.96  | 7.16                             | 334.27   | 1.47   | 0.00   | 0.00 | 8.63 | 95.16         | 7.16          | 2.46           | 0.00            | 334.27   | 0.00 |
| 2018  | 2019                 | 8.96                  | 10.54               | 117.65                                    | 0.00                      | 0.00   | 0.84  | 0.00   | 0.00 | 0.84 | 9.36   | 8.57                             | 617.23   | 1.13   | 0.00   | 0.00 | 9.70 | 108.30        | 8.57          | 1.97           | 0.00            | 617.23   | 0.00 |
| 2019  | 2020                 | 7.07                  | 7.08                | 100.12                                    | 0.00                      | 0.00   | 0.55  | 0.00   | 0.00 | 0.55 | 7.80   | 5.77                             | 611.71   | 0.76   | 0.00   | 0.00 | 6.53 | 92.31         | 5.77          | 1.31           | 0.00            | 611.71   | 0.00 |
| 2020  | 2021                 | 10.48                 | 6.18                | 58.97                                     | 0.00                      | 0.00   | 0.94  | 0.00   | 0.00 | 0.94 | 8.97   | 3.23                             | 317.14   | 2.01   | 0.00   | 0.00 | 5.24 | 50.00         | 3.23          | 2.95           | 0.00            | 317.14   | 0.00 |
| 2021  | 2022                 | 11.42                 | 6.60                | 57.79                                     | 0.00                      | 0.00   | 1.25  | 0.00   | 0.00 | 1.25 | 10.95  | 3.94                             | 181.30   | 1.41   | 0.00   | 0.00 | 5.35 | 46.85         | 3.94          | 2.66           | 0.00            | 181.30   | 0.00 |
| 2021  | 2022 Till Nov        | 7.54                  | 3.84                | 50.93                                     | 0.00                      | 0.00   | 0.70  | 0.00   | 0.00 | 0.70 | 9.28   | 2.29                             | 105.37   | 0.85   | 0.00   | 0.00 | 3.14 | 41.64         | 2.29          | 1.55           | 0.00            | 105.37   | 0.00 |
| 2022  | 2023 Till Nov        | 6.86                  | 10.13               | 147.67                                    | 0.00                      | 0.00   | 5.14  | 0.00   | 0.00 | 5.14 | 74.93  | 4.08                             | 0.00   | 0.91   | 0.00   | 0.00 | 4.99 | 72.74         | 4.08          | 6.05           | 0.00            | 0.00   | 0.00 |
| 01.04.2021  | 30.09.2021           | 5.98                  | 3.14                | 52.51                                     | 0.00                      | 0.00   | 0.69  | 0.00   | 0.00 | 0.69 | 11.54  | 1.87                             | 86.05  | 0.58   | 0.00   | 0.00 | 2.45 | 40.97         | 1.87          | 1.27           | 0.00            | 86.05  | 0.00 |
| 01.10.2021  | 31.01.2022           | 3.39                  | 1.99                | 58.59                                     | 0.00                      | 0.00   | 0.14  | 0.00   | 0.00 | 0.14 | 4.04   | 1.30                             | 59.82  | 0.55   | 0.00   | 0.00 | 1.85 | 54.55         | 1.30          | 0.69           | 0.00            | 59.82  | 0.00 |
| 01.02.2022  | 28.02.2022           | 0.94                  | 0.68                | 72.37                                     | 0.00                      | 0.00   | 0.67  | 0.00   | 0.00 | 0.67 | 71.31  | 0.00                             | 0.00   | 0.01   | 0.00   | 0.00 | 0.01 | 1.06          | 0.00          | 0.68           | 0.00            | 0.00   | 0.00 |
| 01.03.2022  | 31.08.2022           | 6.06                  | 7.62                | 125.83                                    | 0.00                      | 0.00   | 3.72  | 0.00   | 0.00 | 3.72 | 61.43  | 3.04                             | 0.00   | 0.86   | 0.00   | 0.00 | 3.90 | 64.40         | 3.04          | 4.58           | 0.00            | 0.00   | 0.00 |
| 01.09.2022  | Till date Dec' 22    | 1.92                  | 3.30                | 172.23                                    | 0.00                      | 0.00   | 3.18  | 0.00   | 0.00 | 3.18 | 165.96                                       | 0.11                             | 0.00   | 0.01   | 0.00   | 0.00 | 0.12 | 6.26          | 0.11          | 3.19           | 0.00            | 0.00   | 0.00 |

Bhilai

| Period     |                      | Pond Ash             |                       |                     |   |                           |  |   |  |       |       | Dry Fly Ash                                  |                                  |  |  |  |      | Total |               |               | Total          |                 |  |
|------------|----------------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|--|-------|-------|--|----------------------------------|--|--|--|------|-------|---------------|---------------|----------------|-----------------|--|
|            |                      | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %     | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %     | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |
| 2009       | 2010                 | 77.00                | 15.46                 | 20.08               | 0.00                                      | 0.00                      | 14.70  | 0.00  | 0.00   | 14.70 | 19.09 | 0.65   | 3.92                             | 0.11   | 0.00   | 0.00   | 0.76 | 0.99  | 0.65          | 14.81         | 0.00           | 3.92            | 0.00   |
| 2010       | 2011                 | 67.49                | 22.60                 | 33.48               | 0.00                                      | 0.00                      | 21.72  | 0.00  | 0.00   | 21.72 | 32.17 | 0.77   | 29.15                            | 0.11   | 0.00   | 0.00   | 0.88 | 1.30  | 0.77          | 21.83         | 0.00           | 29.15           | 0.00   |
| 2011       | 2012                 | 67.49                | 22.60                 | 33.48               | 0.00                                      | 0.00                      | 21.78  | 0.00  | 0.00   | 21.78 | 32.26 | 0.00   | 0.00                             | 0.82   | 0.00   | 0.00   | 0.82 | 1.21  | 0.00          | 22.60         | 0.00           | 0.00            | 0.00   |
| 2012       | 2013                 | 67.26                | 25.50                 | 37.91               | 0.00                                      | 0.00                      | 24.27  | 0.00  | 0.00   | 24.27 | 36.08 | 1.01   | 47.87                            | 0.22   | 0.00   | 0.00   | 1.23 | 1.83  | 1.01          | 24.49         | 0.00           | 47.87           | 0.00   |
| 2013       | 2014                 | 63.13                | 25.08                 | 39.73               | 0.00                                      | 0.00                      | 24.27  | 0.00  | 0.00   | 24.27 | 38.45 | 0.26   | 27.50                            | 0.55   | 0.00   | 0.00   | 0.81 | 1.28  | 0.26          | 24.82         | 0.00           | 27.50           | 0.00   |
| 2014       | 2015                 | 65.20                | 27.57                 | 42.29               | 0.00                                      | 0.00                      | 26.12  | 0.00  | 0.00   | 26.12 | 40.07 | 0.34   | 46.36                            | 1.11   | 0.00   | 0.00   | 1.45 | 2.22  | 0.34          | 27.23         | 0.00           | 46.36           | 0.00   |
| 2015       | 2016                 | 67.82                | 28.92                 | 42.65               | 0.00                                      | 0.00                      | 27.32  | 0.00  | 0.00   | 27.32 | 40.29 | 0.34   | 0.00                             | 1.26   | 0.00   | 0.00   | 1.60 | 2.36  | 0.34          | 28.58         | 0.00           | 0.00            | 0.00   |
| 2016       | 2017                 | 71.21                | 30.72                 | 43.14               | 0.00                                      | 0.00                      | 29.42  | 0.00  | 0.00   | 29.42 | 41.31 | 0.24   | 0.00                             | 1.06   | 0.00   | 0.00   | 1.30 | 1.83  | 0.24          | 30.48         | 0.00           | 0.00            | 0.00   |
| 2017       | 2018                 | 79.20                | 37.61                 | 47.49               | 0.00                                      | 0.00                      | 36.54  | 0.00  | 0.00   | 36.54 | 46.14 | 0.24   | 62.54                            | 0.83   | 0.00   | 0.00   | 1.07 | 1.35  | 0.24          | 37.37         | 0.00           | 62.54           | 0.00   |
| 2018       | 2019                 | 75.85                | 38.07                 | 50.19               | 0.00                                      | 0.00                      | 34.62  | 2.24  | 1133.35  | 36.86 | 48.60 | 0.23   | 0.00                             | 0.98   | 0.00   | 0.00   | 1.21 | 1.60  | 0.23          | 35.60         | 2.24           | 0.00            | 1133.35  |
| 2019       | 2020                 | 70.09                | 47.06                 | 67.14               | 0.00                                      | 0.00                      | 36.99  | 8.69  | 7563.45  | 45.68 | 65.17 | 0.23   | 0.00                             | 1.15   | 0.00   | 0.00   | 1.38 | 1.97  | 0.23          | 38.14         | 8.69           | 0.00            | 7563.45  |
| 2020       | 2021                 | 68.44                | 48.09                 | 70.27               | 0.00                                      | 0.00                      | 28.46  | 18.16   | 19106.50   | 46.62 | 68.12 | 0.24   | 0.00                             | 1.23   | 0.00   | 0.00   | 1.47 | 2.15  | 0.24          | 29.69         | 18.16          | 0.00            | 19106.50   |
| 2021       | 2022                 | 69.00                | 37.59                 | 54.48               | 0.00                                      | 0.00                      | 18.09  | 18.21   | 19771.12   | 36.30 | 52.61 | 0.24   | 0.00                             | 1.05   | 0.00   | 0.00   | 1.29 | 1.87  | 0.24          | 19.14         | 18.21          | 0.00            | 19771.12   |
| 2021       | 2022 (Till November) | 47.64                | 27.76                 | 58.27               | 0.00                                      | 0.00                      | 16.11  | 10.81   | 11736.73   | 26.92 | 56.51 | 0.16   | 0.00                             | 0.68   | 0.00   | 0.00   | 0.84 | 1.76  | 0.16          | 16.79         | 10.81          | 0.00            | 11736.73   |
| 2022       | 2023 (Till November) | 42.59                | 22.87                 | 53.70               | 0.00                                      | 0.00                      | 5.63   | 16.39   | 9980.00  | 22.02 | 51.70 | 0.00   | 0.00                             | 0.85   | 0.00   | 0.00   | 0.85 | 2.00  | 0.00          | 6.48          | 16.39          | 0.00            | 9980.00  |
| 01.04.2021 | 30.09.2021           | 35.71                | 22.05                 | 61.75               | 0.00                                      | 0.00                      | 11.72  | 9.65  | 10477.28   | 21.37 | 59.84 | 0.12   | 0.00                             | 0.56   | 0.00   | 0.00   | 0.68 | 1.90  | 0.12          | 12.28         | 9.65           | 0.00            | 10477.28   |
| 01.10.2021 | 31.01.2022           | 22.04                | 12.14                 | 55.07               | 0.00                                      | 0.00                      | 6.49   | 5.26  | 5710.93  | 11.75 | 53.30 | 0.00   | 0.00                             | 0.39   | 0.00   | 0.00   | 0.39 | 1.77  | 0.00          | 6.88          | 5.26           | 0.00            | 5710.93  |
| 01.02.2022 | 28.02.2022           | 5.47                 | 1.93                  | 35.18               | 0.00                                      | 0.00                      | 0.02   | 1.76  | 1910.88  | 1.78  | 32.43 | 0.00   | 0.00                             | 0.15   | 0.00   | 0.00   | 0.15 | 2.74  | 0.00          | 0.17          | 1.76           | 0.00            | 1910.88  |
| 01.03.2022 | 31.08.2022           | 33.46                | 15.67                 | 46.83               | 0.00                                      | 0.00                      | 3.33   | 11.79   | 7790.97  | 15.12 | 45.19 | 0.00   | 0.00                             | 0.55   | 0.00   | 0.00   | 0.55 | 1.64  | 0.00          | 3.88          | 11.79          | 0.00            | 7790.97  |
| 01.09.2022 | Till date Dec' 22    | 14.90                | 8.69                  | 58.30               | 0.00                                      | 0.00                      | 2.28   | 6.04  | 3677.80  | 8.32  | 55.82 | 0.00   | 0.00                             | 0.37   | 0.00   | 0.00   | 0.37 | 2.48  | 0.00          | 2.65          | 6.04           | 0.00            | 3677.80  |

Palcher-K

|            |                      | Pond Ash              |                     |   |                           |  |   |  |         |       |  | Dry Fly Ash                      |  |  |  |      |       | Total        |               |                | Total           |  |         |
|------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|--|---------|-------|--|----------------------------------|--|--|--|------|-------|--------------|---------------|----------------|-----------------|--|---------|
| Period     | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT     | %     | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %     | Step-I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |         |
| 2009       | 2010                 | 21.43                 | 0.21                | 0.96                                      | 0.00                      | 0.00   | 0.21  | 0.00   | 0.00    | 0.21  | 0.96   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | 0.00  | 0.00         | 0.21          | 0.00           | 0.00            | 0.00   | 0.00    |
| 2010       | 2011                 | 22.09                 | 2.32                | 10.52                                     | 0.00                      | 0.00   | 0.04  | 0.00   | 0.00    | 0.04  | 0.19   | 2.28                             | 12.58  | 0.00   | 0.00   | 0.00 | 2.28  | 10.32        | 2.28          | 0.04           | 0.00            | 12.58  | 0.00    |
| 2011       | 2012                 | 26.15                 | 3.22                | 12.31                                     | 0.00                      | 0.00   | 0.05  | 0.00   | 0.00    | 0.05  | 0.19   | 3.17                             | 9.19   | 0.00   | 0.00   | 0.00 | 3.17  | 12.12        | 3.17          | 0.05           | 0.00            | 9.19   | 0.00    |
| 2012       | 2013                 | 41.76                 | 8.62                | 20.64                                     | 0.00                      | 0.00   | 3.39  | 0.00   | 0.00    | 3.39  | 8.11   | 5.23                             | 27.06  | 0.00   | 0.00   | 0.00 | 5.23  | 12.52        | 5.23          | 3.39           | 0.00            | 27.06  | 0.00    |
| 2013       | 2014                 | 47.29                 | 10.05               | 21.26                                     | 0.00                      | 0.00   | 0.67  | 0.00   | 0.00    | 0.67  | 1.42   | 9.38                             | 29.81  | 0.00   | 0.00   | 0.00 | 9.38  | 19.84        | 9.38          | 0.67           | 0.00            | 29.81  | 0.00    |
| 2014       | 2015                 | 49.41                 | 15.41               | 31.19                                     | 0.00                      | 0.00   | 0.59  | 0.00   | 0.00    | 0.59  | 1.20   | 12.12                            | 10.27  | 2.70   | 0.00   | 0.00 | 14.82 | 29.99        | 12.12         | 3.29           | 0.00            | 10.27  | 0.00    |
| 2015       | 2016                 | 55.11                 | 8.37                | 15.20                                     | 0.00                      | 0.00   | 1.35  | 0.00   | 0.00    | 1.35  | 2.46   | 4.25                             | 4.98   | 2.77   | 0.00   | 0.00 | 7.02  | 12.74        | 4.25          | 4.12           | 0.00            | 4.98   | 0.00    |
| 2016       | 2017                 | 54.50                 | 12.46               | 22.86                                     | 0.00                      | 0.00   | 5.51  | 0.00   | 0.00    | 5.51  | 10.11  | 4.58                             | 27.49  | 2.37   | 0.00   | 0.00 | 6.95  | 12.75        | 4.58          | 7.88           | 0.00            | 27.49  | 0.00    |
| 2017       | 2018                 | 52.11                 | 9.71                | 18.63                                     | 0.00                      | 0.00   | 3.39  | 0.00   | 0.00    | 3.39  | 6.51   | 3.52                             | 84.55  | 2.80   | 0.00   | 0.00 | 6.32  | 12.13        | 3.52          | 6.19           | 0.00            | 84.55  | 0.00    |
| 2018       | 2019                 | 47.81                 | 23.77               | 49.72                                     | 0.00                      | 0.00   | 14.01   | 1.09   | 746.24  | 15.10 | 31.58  | 5.44                             | 155.37   | 3.23   | 0.00   | 0.00 | 8.67  | 18.13        | 5.44          | 17.24          | 1.09            | 155.37   | 746.24  |
| 2019       | 2020                 | 49.05                 | 24.08               | 49.09                                     | 0.00                      | 0.00   | 12.19   | 3.10   | 638.39  | 15.29 | 31.17  | 5.07                             | 252.38   | 3.72   | 0.00   | 0.00 | 8.79  | 17.92        | 5.07          | 15.91          | 3.10            | 252.38   | 638.39  |
| 2020       | 2021                 | 52.47                 | 30.25               | 57.65                                     | 0.00                      | 0.00   | 9.83  | 15.93  | 3832.75 | 25.76 | 49.09  | 1.14                             | 32.50  | 3.35   | 0.00   | 0.00 | 4.49  | 8.56         | 1.14          | 13.18          | 15.93           | 32.50  | 3832.75 |
| 2021       | 2022                 | 51.98                 | 30.80               | 59.25                                     | 0.00                      | 0.00   | 20.61   | 6.79   | 3944.23 | 27.40 | 52.71  | 0.69                             | 130.01   | 2.71   | 0.00   | 0.00 | 3.40  | 6.54         | 0.69          | 23.32          | 6.79            | 130.01   | 3944.23 |
| 2021       | 2022 (Till November) | 36.32                 | 10.31               | 28.39                                     | 0.00                      | 0.00   | 4.62  | 3.58   | 2079.58 | 8.20  | 22.58  | 0.45                             | 84.79  | 1.66   | 0.00   | 0.00 | 2.11  | 5.81         | 0.45          | 6.28           | 3.58            | 84.79  | 2079.58 |
| 2022       | 2023 (Till November) | 33.50                 | 14.37               | 42.90                                     | 0.00                      | 0.00   | 2.77  | 9.56   | 4452.00 | 12.33 | 36.81  | 0.33                             | 0.00   | 1.71   | 0.00   | 0.00 | 2.04  | 6.09         | 0.33          | 4.48           | 9.56            | 0.00   | 4452.00 |
| 01.04.2021 | 30.09.2021           | 28.51                 | 8.58                | 30.09                                     | 0.00                      | 0.00   | 1.02  | 6.17   | 3584.08 | 7.19  | 25.22  | 0.13                             | 24.49  | 1.26   | 0.00   | 0.00 | 1.39  | 4.88         | 0.13          | 2.28           | 6.17            | 24.49  | 3584.08 |
| 01.10.2021 | 31.01.2022           | 10.20                 | 13.00               | 127.51                                    | 0.00                      | 0.00   | 9.82  | 1.94   | 1126.92 | 11.76 | 115.34                                       | 0.36                             | 67.83  | 0.88   | 0.00   | 0.00 | 1.24  | 12.16        | 0.36          | 10.70          | 1.94            | 67.83  | 1126.92 |
| 01.02.2022 | 28.02.2022           | 3.34                  | 3.38                | 101.28                                    | 0.00                      | 0.00   | 2.35  | 0.70   | 406.62  | 3.05  | 91.40  | 0.05                             | 9.42   | 0.28   | 0.00   | 0.00 | 0.33  | 9.88         | 0.05          | 2.63           | 0.70            | 9.42   | 406.62  |
| 01.03.2022 | 31.08.2022           | 24.93                 | 12.37               | 49.64                                     | 0.00                      | 0.00   | 4.54  | 6.36   | 2961.79 | 10.90 | 43.73  | 0.16                             | 0.00   | 1.31   | 0.00   | 0.00 | 1.47  | 5.91         | 0.16          | 5.85           | 6.36            | 0.00   | 2961.79 |
| 01.09.2022 | Till date Dec' 22    | 12.88                 | 6.32                | 49.1                                      | 0.0                       | 0.0  | 1.5   | 3.9  | 2253.8  | 5.38  | 41.81  | 0.23                             | 0.00   | 0.71   | 0  | 0    | 0.94  | 7.30         | 0.23          | 2.21           | 3.88            | 0.00   | 2253.84 |

Sipat

|            |                       | Pond Ash              |                     |   |                           |  |   |  |         |       |  | Dry Fly Ash                      |  |  |  |       |      | Total         |               |                | Total           |  |         |
|------------|-----------------------|-----------------------|---------------------|---|---------------------------|--|---|--|---------|-------|--|----------------------------------|--|--|--|-------|------|---------------|---------------|----------------|-----------------|--|---------|
| Period     | Ash Generation (LMT)  | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT     | %     | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %    | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |         |
| 2009       | 2010                  | 35.84                 | 26.16               | 73.00                                     | 0.00                      | 0.00   | 22.53   | 0.00   | 0.00    | 22.53 | 62.87  | 0.00                             | 0.00   | 3.63   | 0.00   | 0.00  | 3.63 | 10.14         | 0.00          | 26.16          | 0.00            | 0.00   | 0.00    |
| 2010       | 2011                  | 40.49                 | 24.30               | 60.02                                     | 0.00                      | 0.00   | 20.57   | 0.00   | 0.00    | 20.57 | 50.80  | 0.00                             | 0.00   | 3.73   | 0.00   | 0.00  | 3.73 | 9.22          | 0.00          | 24.30          | 0.00            | 0.00   | 0.00    |
| 2011       | 2012                  | 37.93                 | 23.24               | 61.28                                     | 0.00                      | 0.00   | 20.12   | 0.00   | 0.00    | 20.12 | 53.04  | 0.00                             | 0.00   | 3.13   | 0.00   | 0.00  | 3.13 | 8.24          | 0.00          | 23.24          | 0.00            | 0.00   | 0.00    |
| 2012       | 2013                  | 37.77                 | 22.66               | 60.00                                     | 0.00                      | 0.00   | 19.38   | 0.00   | 0.00    | 19.38 | 51.30  | 0.00                             | 0.00   | 3.29   | 0.00   | 0.00  | 3.29 | 8.70          | 0.00          | 22.66          | 0.00            | 0.00   | 0.00    |
| 2013       | 2014                  | 37.66                 | 9.85                | 26.16                                     | 0.00                      | 0.00   | 4.68  | 0.00   | 0.00    | 4.68  | 12.44  | 0.00                             | 0.00   | 5.17   | 0.00   | 0.00  | 5.17 | 13.72         | 0.00          | 9.85           | 0.00            | 0.00   | 0.00    |
| 2014       | 2015                  | 37.00                 | 6.21                | 16.78                                     | 0.00                      | 0.00   | 5.25  | 0.00   | 0.00    | 5.25  | 14.19  | 0.00                             | 0.00   | 0.96   | 0.00   | 0.00  | 0.96 | 2.59          | 0.00          | 6.21           | 0.00            | 0.00   | 0.00    |
| 2015       | 2016                  | 45.49                 | 3.97                | 8.74                                      | 0.00                      | 0.00   | 3.74  | 0.00   | 0.00    | 3.74  | 8.22   | 0.00                             | 0.00   | 0.24   | 0.00   | 0.00  | 0.24 | 0.52          | 0.00          | 3.97           | 0.00            | 0.00   | 0.00    |
| 2016       | 2017                  | 36.77                 | 3.34                | 9.08                                      | 0.00                      | 0.00   | 3.04  | 0.00   | 0.00    | 3.04  | 8.25   | 0.00                             | 0.00   | 0.30   | 0.00   | 0.00  | 0.30 | 0.83          | 0.00          | 3.34           | 0.00            | 0.00   | 0.00    |
| 2017       | 2018                  | 34.83                 | 10.58               | 30.38                                     | 0.00                      | 0.00   | 10.43   | 0.00   | 0.00    | 10.43 | 29.94  | 0.00                             | 0.00   | 0.15   | 0.00   | 0.00  | 0.15 | 0.44          | 0.00          | 10.58          | 0.00            | 0.00   | 0.00    |
| 2018       | 2019                  | 28.90                 | 10.17               | 35.19                                     | 0.00                      | 0.00   | 10.13   | 0.00   | 0.00    | 10.13 | 35.04  | 0.00                             | 0.00   | 0.04   | 0.00   | 0.00  | 0.04 | 0.15          | 0.00          | 10.17          | 0.00            | 0.00   | 0.00    |
| 2019       | 2020                  | 32.06                 | 12.63               | 39.39                                     | 0.00                      | 0.00   | 12.58   | 0.00   | 0.00    | 12.58 | 39.24  | 0.00                             | 0.00   | 0.05   | 0.00   | 0.00  | 0.05 | 0.16          | 0.00          | 12.63          | 0.00            | 0.00   | 0.00    |
| 2020       | 2021                  | 29.84                 | 9.98                | 33.45                                     | 0.00                      | 0.00   | 4.76  | 5.16   | 6194.71 | 9.92  | 33.24  | 0.00                             | 0.00   | 0.06   | 0.00   | 0.00  | 0.06 | 0.20          | 0.00          | 4.82           | 5.16            | 0.00   | 6194.71 |
| 2021       | 2022                  | 20.24                 | 4.19                | 20.70                                     | 0.00                      | 0.00   | 0.71  | 3.39   | 3441.27 | 4.10  | 20.26  | 0.00                             | 0.00   | 0.09   | 0.00   | 0.00  | 0.09 | 0.44          | 0.00          | 0.80           | 3.39            | 0.00   | 3441.27 |
| 2021       | 2022 (Till November)  | 20.24                 | 4.19                | 20.70                                     | 0.00                      | 0.00   | 1.38  | 2.75   | 2791.59 | 4.13  | 20.41  | 0.00                             | 0.00   | 0.06   | 0.00   | 0.00  | 0.06 | 0.30          | 0.00          | 1.44           | 2.75            | 0.00   | 2791.59 |
| 2022       | 2023 (Till Novemeber) | 21.02                 | 5.98                | 28.45                                     | 0.00                      | 0.00   | 0.68  | 5.28   | 1940.00 | 5.96  | 28.35  | 0.00                             | 0.00   | 0.02   | 0.00   | 0.00  | 0.02 | 0.10          | 0.00          | 0.70           | 5.28            | 0.00   | 1940.00 |
| 01.04.2021 | 30.09.2021            | 14.90                 | 3.74                | 25.10                                     | 0.00                      | 0.00   | 0.95  | 2.74   | 2786.11 | 3.69  | 24.80  | 0.00                             | 0.00   | 0.02   | 0.03   | 10.72 | 0.05 | 0.31          | 0.00          | 0.97           | 2.77            | 0.00   | 2796.83 |
| 01.10.2021 | 31.01.2022            | 10.20                 | 13.00               | 127.51                                    | 0.00                      | 0.00   | 12.96   | 0.01   | 6.22    | 12.97 | 127.18                                       | 0.00                             | 0.00   | 0.00   | 0.04   | 9.71  | 0.04 | 0.40          | 0.00          | 12.96          | 0.05            | 0.00   | 15.94   |
| 01.02.2022 | 28.02.2022            | 2.52                  | 0.31                | 12.31                                     | 0.00                      | 0.00   | 0.00  | 0.30   | 305.62  | 0.30  | 11.95  | 0.00                             | 0.00   | 0.00   | 0.01   | 2.12  | 0.01 | 0.27          | 0.00          | 0.00           | 0.31            | 0.00   | 307.74  |
| 01.03.2022 | 31.08.2022            | 15.55                 | 2.77                | 17.79                                     | 0.00                      | 0.00   | 0.35  | 2.39   | 878.14  | 2.74  | 17.64  | 0.00                             | 0.00   | 0.02   | 0.00   | 3.99  | 0.02 | 0.15          | 0.00          | 0.37           | 2.39            | 0.00   | 882.13  |
| 01.09.2022 | Till date Dec' 22     | 8.19                  | 3.55                | 43.34                                     | 0.00                      | 0.00   | 0.32  | 3.23   | 2067.57 | 3.55  | 43.32  | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00  | 0.00 | 0.00          | 0.00          | 0.32           | 3.23            | 0.00   | 2067.57 |

Singrauli

| Period     |                   | Pond Ash             |                       |                     |   |                           |  |   |  |       |        | Dry Fly Ash                                  |                                  |   |  |  |      | Total |               |               | Total          |                 |  |
|------------|-------------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|--|-------|--------|--|----------------------------------|---|--|--|------|-------|---------------|---------------|----------------|-----------------|--|
|            |                   | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %      | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II -Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %     | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |
| 2009       | 2010              | 28.56                | 21.00                 | 73.53               | 0.00                                      | 0.00                      | 17.30  | 0.00  | 0.00   | 17.30 | 60.58  | 0.00   | 0.31                             | 3.70  | 0.00   | 0.00   | 3.70 | 12.95 | 0.00          | 21.00         | 0.00           | 0.31            | 0.00   |
| 2010       | 2011              | 29.05                | 17.58                 | 60.52               | 0.00                                      | 0.00                      | 16.98  | 0.00  | 0.00   | 16.98 | 58.45  | 0.00   | 6.59                             | 0.6   | 0.00   | 0.00   | 0.60 | 2.07  | 0.00          | 17.58         | 0.00           | 6.59            | 0.00   |
| 2011       | 2012              | 31.19                | 18.92                 | 60.67               | 0.00                                      | 0.00                      | 18.08  | 0.00  | 0.00   | 18.08 | 57.98  | 0.00   | 0.84                             | 0.00  | 0.00   | 0.00   | 0.84 | 2.69  | 0.00          | 18.92         | 0.00           | -               | 0.00   |
| 2012       | 2013              | 34.89                | 19.71                 | 56.49               | 0.00                                      | 0.00                      | 18.62  | 0.00  | 0.00   | 18.62 | 53.37  | 0.00   | 12.59                            | 1.09  | 0.00   | 0.00   | 1.09 | 3.12  | 0.00          | 19.71         | 0.00           | 12.59           | 0.00   |
| 2013       | 2014              | 44.87                | 18.94                 | 42.21               | 0.00                                      | 0.00                      | 18.73  | 0.00  | 0.00   | 18.73 | 41.74  | 0.00   | 3.90                             | 0.21  | 0.00   | 0.00   | 0.21 | 0.47  | 0.00          | 18.94         | 0.00           | 3.90            | 0.00   |
| 2014       | 2015              | 48.31                | 4.93                  | 10.20               | 0.00                                      | 0.00                      | 3.90   | 0.00  | 0.00   | 3.90  | 8.07   | 0.00   | 0.00                             | 1.03  | 0.00   | 0.00   | 1.03 | 2.13  | 0.00          | 4.93          | 0.00           | -               | 0.00   |
| 2015       | 2016              | 43.75                | 6.57                  | 15.02               | 0.00                                      | 0.00                      | 5.93   | 0.00  | 0.00   | 5.93  | 13.56  | 0.00   | 0.00                             | 0.64  | 0.00   | 0.00   | 0.64 | 1.46  | 0.00          | 6.57          | 0.00           | -               | 0.00   |
| 2016       | 2017              | 48.54                | 7.50                  | 15.45               | 0.00                                      | 0.00                      | 6.13   | 0.00  | 0.00   | 6.13  | 12.63  | 0.00   | 0.00                             | 1.37  | 0.00   | 0.00   | 1.37 | 2.82  | 0.00          | 7.50          | 0.00           | -               | 0.00   |
| 2017       | 2018              | 43.45                | 13.49                 | 31.05               | 0.00                                      | 0.00                      | 12.16  | 0.00  | 0.00   | 12.16 | 27.99  | 0.00   | 0.00                             | 1.33  | 0.00   | 0.00   | 1.33 | 3.06  | 0.00          | 13.49         | 0.00           | -               | 0.00   |
| 2018       | 2019              | 35.07                | 13.04                 | 37.18               | 0.00                                      | 0.00                      | 11.28  | 0.00  | 0.00   | 11.28 | 32.16  | 0.00   | 0.00                             | 1.76  | 0.00   | 0.00   | 1.76 | 5.02  | 0.00          | 13.04         | 0.00           | -               | 0.00   |
| 2019       | 2020              | 39.01                | 16.61                 | 42.58               | 0.00                                      | 0.00                      | 15.37  | 0.00  | 11.90  | 15.37 | 39.40  | 0.00   | 94.10                            | 1.24  | 0.00   | 0.00   | 1.24 | 3.18  | 0.00          | 16.61         | 0.00           | 94.10           | 11.90  |
| 2020       | 2021              | 39.22                | 20.41                 | 52.04               | 0.00                                      | 0.00                      | 16.98  | 2.90  | 3364.53  | 19.88 | 50.69  | 0.00   | 157.12                           | 0.53  | 0.00   | 0.00   | 0.53 | 1.35  | 0.00          | 17.51         | 2.90           | 157.12          | 3364.53  |
| 2021       | 2022              | 37.09                | 21.98                 | 59.26               | 0.00                                      | 0.00                      | 11.81  | 7.72  | 7299.05  | 19.53 | 52.66  | 0.00   | 0.00                             | 2.46  | 0.00   | 0.00   | 2.46 | 6.63  | 0.00          | 14.27         | 7.72           | -               | 7299.05  |
| 2021       | 2022 Till Nov     | 26.07                | 11.12                 | 42.65               | 0.00                                      | 0.00                      | 5.27   | 4.43  | 4188.44  | 9.70  | 37.21  | 0.00   | 0.00                             | 1.42  | 0.00   | 0.00   | 1.42 | 5.45  | 0.00          | 6.69          | 4.43           | -               | 4188.44  |
| 2022       | 2023 Till Nov     | 25.16                | 12.83                 | 50.99               | 0.00                                      | 0.00                      | 2.03   | 9.29  | 8710.00  | 11.32 | 44.99  | 0.00   | 0.00                             | 1.51  | 0.00   | 0.00   | 1.51 | 6.00  | 0.00          | 3.54          | 9.29           | -               | 8710.00  |
| 01.04.2021 | 30.09.2021        | 20.54                | 9.49                  | 46.20               | 0.00                                      | 0.00                      | 4.26   | 4.22  | 3989.90  | 8.48  | 41.29  | 0.00   | 0.00                             | 1   | 0.00   | 0.00   | 1.00 | 4.87  | 0.00          | 5.26          | 4.22           | -               | 3989.90  |
| 01.10.2021 | 31.01.2022        | 11.01                | 8.17                  | 74.18               | 0.00                                      | 0.00                      | 5.10   | 2.08  | 1966.58  | 7.18  | 65.22  | 0.00   | 0.00                             | 0.98  | 0.00   | 0.00   | 0.98 | 8.90  | 0.00          | 6.08          | 2.08           | -               | 1966.58  |
| 01.02.2022 | 28.02.2022        | 2.21                 | 2.53                  | 114.01              | 0.00                                      | 0.00                      | 1.23   | 1.04  | 983.29   | 2.27  | 102.49 | 0.00   | 0.00                             | 0.25  | 0.00   | 0.00   | 0.25 | 11.29 | 0.00          | 1.48          | 1.04           | -               | 983.29   |
| 01.03.2022 | 31.08.2022        | 20.82                | 7.64                  | 36.70               | 0.00                                      | 0.00                      | 2.51   | 4.09  | 3834.65  | 6.60  | 31.70  | 0.00   | 0.00                             | 1.04  | 0.00   | 0.00   | 1.04 | 4.99  | 0.00          | 3.55          | 4.09           | -               | 3834.65  |
| 01.09.2022 | Till date Dec' 22 | 7.66                 | 6.98                  | 91.11               | 0.00                                      | 0.00                      | 0.74   | 5.58  | 5275.74  | 6.32  | 82.47  | 0.00   | 0.00                             | 0.67  | 0.00   | 0.00   | 0.67 | 8.74  | 0.00          | 1.41          | 5.58           | -               | 5275.74  |

|        |       |
|--------|-------|
| 0.31   |       |
| 6.59   |       |
| -      |       |
| 12.59  |       |
| 3.90   | 2.09  |
| -      | -1.55 |
| -      | -0.53 |
| -      | -     |
| 94.10  |       |
| 157.12 |       |

Rihand

| Period     |                   | Pond Ash             |                       |                     |   |                           |  |   |  |       |        | Dry Fly Ash                                  |                                  |   |   |  |       | Total |              |               | Total          |                 |  |
|------------|-------------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|--|-------|--------|--|----------------------------------|---|---|--|-------|-------|--------------|---------------|----------------|-----------------|--|
|            |                   | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %      | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II -Free Issue with Transportation | Ash Utilization Through Step-III Free Issue with Transportation | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %     | Step-I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC |
| 2009       | 2010              | 42.80                | 31.34                 | 73.22               | 0.00                                      | 0.00                      | 8.57   | 0.00  | 0.00   | 8.57  | 20.02  | 0.00   | 0.00                             | 22.57   | 0.00  | 0.00   | 22.57 | 52.73 | 0.00         | 31.14         | 0.00           | 0.00            | 0.00                                       |
| 2010       | 2011              | 40.66                | 26.11                 | 64.22               | 0.00                                      | 0.00                      | 6.11   | 0.00  | 0.00   | 6.11  | 15.03  | 0.00   | 0.00                             | 20.01   | 0.00  | 0.00   | 20.01 | 49.22 | 0.00         | 26.12         | 0.00           | 0.00            | 0.00                                       |
| 2011       | 2012              | 42.94                | 26.08                 | 60.75               | 0.00                                      | 0.00                      | 9.91   | 0.00  | 0.00   | 9.91  | 23.09  | 16.06  | 770.90                           | 0.11  | 0.00  | 0.00   | 16.17 | 37.66 | 16.06        | 10.02         | 0.00           | 770.90          | 0.00                                       |
| 2012       | 2013              | 45.21                | 30.52                 | 67.52               | 0.00                                      | 0.00                      | 11.71  | 0.00  | 0.00   | 11.71 | 25.90  | 18.70  | 697.32                           | 0.11  | 0.00  | 0.00   | 18.81 | 41.61 | 18.70        | 11.82         | 0.00           | 697.32          | 0.00                                       |
| 2013       | 2014              | 50.49                | 31.52                 | 62.44               | 0.00                                      | 0.00                      | 14.33  | 0.00  | 0.00   | 14.33 | 28.38  | 10.43  | 696.21                           | 6.74  | 0.00  | 0.00   | 17.17 | 34.01 | 10.43        | 21.07         | 0.00           | 696.21          | 0.00                                       |
| 2014       | 2015              | 55.14                | 35.51                 | 64.40               | 0.00                                      | 0.00                      | 17.47  | 0.00  | 0.00   | 17.47 | 31.68  | 9.49   | 612.07                           | 8.54  | 0.00  | 0.00   | 18.03 | 32.70 | 9.49         | 26.01         | 0.00           | 612.07          | 0.00                                       |
| 2015       | 2016              | 50.24                | 44.82                 | 89.21               | 0.00                                      | 0.00                      | 22.03  | 0.00  | 0.00   | 22.03 | 43.85  | 9.97   | 688.79                           | 12.83   | 0.00  | 0.00   | 22.80 | 45.38 | 9.97         | 34.86         | 0.00           | 688.79          | 0.00                                       |
| 2016       | 2017              | 47.11                | 43.89                 | 93.16               | 0.00                                      | 0.00                      | 20.24  | 0.00  | 0.00   | 20.24 | 42.96  | 8.12   | 535.40                           | 15.52   | 0.00  | 0.00   | 23.64 | 50.18 | 8.12         | 35.76         | 0.00           | 535.40          | 0.00                                       |
| 2017       | 2018              | 45.47                | 45.90                 | 100.95              | 0.00                                      | 0.00                      | 29.72  | 0.00  | 0.00   | 29.72 | 65.36  | 4.31   | 302.89                           | 11.87   | 0.00  | 0.00   | 16.18 | 35.58 | 4.31         | 41.59         | 0.00           | 302.89          | 0.00                                       |
| 2018       | 2019              | 42.75                | 47.16                 | 110.32              | 0.00                                      | 0.00                      | 22.22  | 0.00  | 0.00   | 22.22 | 51.98  | 6.71   | 406.16                           | 18.23   | 0.00  | 0.00   | 24.94 | 58.34 | 6.71         | 40.45         | 0.00           | 406.16          | 0.00                                       |
| 2019       | 2020              | 38.16                | 45.12                 | 118.24              | 0.00                                      | 0.00                      | 8.39   | 9.38  | 0.00   | 17.77 | 46.57  | 7  | 372.71                           | 20.35   | 0.00  | 0.00   | 27.35 | 71.67 | 7.00         | 28.74         | 9.38           | 372.71          | 0.00                                       |
| 2020       | 2021              | 38.57                | 42.85                 | 111.10              | 0.00                                      | 0.00                      | 3.34   | 5.53  | 29.80  | 8.87  | 23.00  | 8.42   | 491.16                           | 25.56   | 0.00  | 0.00   | 33.98 | 88.10 | 8.42         | 28.90         | 5.53           | 491.16          | 29.80                                      |
| 2021       | 2022              | 39.38                | 55.50                 | 140.93              | 0.00                                      | 0.00                      | 17.03  | 21.45   | 4858.42  | 38.48 | 97.71  | 8.25   | 575.14                           | 8.77  | 0.00  | 0.00   | 17.02 | 43.22 | 8.25         | 25.80         | 21.45          | 575.14          | 4858.42                                    |
| 2021       | 2022 (Till Nov)   | 27.22                | 34.51                 | 126.78              | 0.00                                      | 0.00                      | 10.80  | 10.69   | 2421.28  | 21.49 | 78.95  | 5.41   | 377.15                           | 7.61  | 0.00  | 0.00   | 13.02 | 47.83 | 5.41         | 18.41         | 10.69          | 377.15          | 2421.28                                    |
| 2022       | 2023 (Till Nov)   | 27.50                | 26.48                 | 96.29               | 0.00                                      | 0.00                      | 0.13   | 19.82   | 8711.00  | 19.95 | 72.55  | 4.84   | 641.25                           | 1.69  | 0.00  | 0.00   | 6.53  | 23.75 | 4.84         | 1.82          | 19.82          | 641.25          | 8711.00                                    |
| 01.04.2021 | 30.09.2021        | 20.19                | 20.81                 | 103.07              | 0.00                                      | 0.00                      | 0.53   | 8.91  | 2018.11  | 9.44  | 46.76  | 4.39   | 306.04                           | 6.98  | 0.00  | 0.00   | 11.37 | 56.32 | 4.39         | 7.51          | 8.91           | 306.04          | 2018.11                                    |
| 01.10.2021 | 31.01.2022        | 12.55                | 23.73                 | 189.10              | 0.00                                      | 0.00                      | 12.42  | 8.07  | 1827.85  | 20.49 | 163.28 | 2.13   | 148.49                           | 1.11  | 0.00  | 0.00   | 3.24  | 25.82 | 2.13         | 13.53         | 8.07           | 148.49          | 1827.85                                    |
| 01.02.2022 | 28.02.2022        | 3.24                 | 4.35                  | 134.18              | 0.00                                      | 0.00                      | 0.00   | 3.19  | 722.53   | 3.19  | 98.38  | 0.77   | 53.68                            | 0.39  | 0.00  | 0.00   | 1.16  | 35.80 | 0.77         | 0.39          | 3.19           | 53.68           | 722.53                                     |
| 01.03.2022 | 31.08.2022        | 20.07                | 23.47                 | 116.95              | 0.00                                      | 0.00                      | 0.15   | 18.00   | 6675.15  | 18.15 | 90.44  | 2.67   | 470.37                           | 2.65  | 0.00  | 0.00   | 5.32  | 26.51 | 2.67         | 2.80          | 18.00          | 470.37          | 6675.15                                    |
| 01.09.2022 | Till date Dec '22 | 10.83                | 9.63                  | 88.85               | 0.00                                      | 0.00                      | 0.02   | 7.12  | 3536.01  | 7.14  | 65.87  | 0.97   | 170.88                           | 1.52  | 0.00  | 0.00   | 2.49  | 22.98 | 0.97         | 1.54          | 7.12           | 170.88          | 3536.01                                    |

Ramagundam

| Period     |                   | Pond Ash                            |                       |                     |                                     |                           |  |  |  |       |       | Dry Fly Ash                            |                                  |  |  |  |      | Total |               |               | Total          |                 |  |         |
|------------|-------------------|-------------------------------------|-----------------------|---------------------|-------------------------------------|---------------------------|--|--|--|-------|-------|--|----------------------------------|--|--|--|------|-------|---------------|---------------|----------------|-----------------|--|---------|
|            |                   | Ash Generation (LMT)                | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transporta | Qty Tied up through Free Issue with Transporta | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %     | Ash Utilization Through Step-I Auction | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II -Free Issue with Transportatio | Ash Utilization Through Step-III Free Issue with | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %     | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC |         |
| 2009       | 2010              | Ash Generation started from 2019-20 |                       |                     |                                     |                           |  |  |  |       |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |         |
| 2010       | 2011              |                                     |                       |                     |                                     |                           |  |  |  |       |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |         |
| 2011       | 2012              |                                     |                       |                     |                                     |                           |  |  |  |       |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |         |
| 2012       | 2013              |                                     |                       |                     |                                     |                           |  |  |  |       |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |         |
| 2013       | 2014              |                                     |                       |                     |                                     |                           |  |  |  |       |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |         |
| 2014       | 2015              |                                     |                       |                     |                                     |                           |  |  |  |       |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |         |
| 2015       | 2016              |                                     |                       |                     |                                     |                           |  |  |  |       |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |         |
| 2016       | 2017              |                                     |                       |                     |                                     |                           |  |  |  |       |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |         |
| 2017       | 2018              |                                     |                       |                     |                                     |                           |  |  |  |       |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |         |
| 2018       | 2019              |                                     |                       |                     |                                     |                           |  |  |  |       |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |         |
| 2019       | 2020              | 5.7                                 | 0.04                  | 0.71                | 0.00                                | 0.00                      | 0.00   | 0.00   | 1.96   | 0.00  | 0.00  | 0.00                                   | 0.00                             | 0.01   | 0.00   | 0.00   | 0.01 | 0.18  | 0.00          | 0.01          | 0.00           | 0.01            | 0.00                                       | 1.96    |
| 2020       | 2021              | 13.52                               | 10.06                 | 74.41               | 0.00                                | 0.00                      | 1.64   | 8.28   | 8319.75  | 0.00  | 0.00  | 0.00                                   | 0.00                             | 0.13   | 0.00   | 0.00   | 0.13 | 0.96  | 0.00          | 1.77          | 8.28           | 10.05           | 0.00                                       | 8319.75 |
| 2021       | 2022              | 32.3                                | 18.23                 | 56.42               | 0.00                                | 0.00                      | 9.22   | 8.96   | 5823.57  | 18.18 | 56.27 | 0.00                                   | 0.00                             | 0.05   | 0.00   | 0.00   | 0.05 | 0.15  | 0.00          | 9.27          | 8.96           | 18.23           | 0.00                                       | 5823.57 |
| 2021       | 2022 (Till Nov)   | 19.7                                | 5.13                  | 26.05               | 0.00                                | 0.00                      | 1.15   | 3.94   | 2560.81  | 5.09  | 25.85 | 0.00                                   | 0.00                             | 0.04   | 0.00   | 0.00   | 0.04 | 0.20  | 0.00          | 1.19          | 3.94           | 5.13            | 0.00                                       | 2560.81 |
| 2022       | 2023 (Till Nov)   | 24.4                                | 4.57                  | 18.71               | 0.00                                | 0.00                      | 0.90   | 3.65   | 2372.33  | 4.55  | 18.63 | 0.02                                   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.02 | 0.08  | 0.02          | 0.90          | 3.65           | 4.57            | 0.00                                       | 2372.33 |
| 01.04.2021 | 30.09.2021        | 14.6                                | 4.41                  | 30.16               | 0.00                                | 0.00                      | 0.93   | 3.48   | 2261.83  | 4.41  | 30.16 | 0.00                                   | 0.00                             | 0.02   | 0.00   | 0.00   | 0.02 | 0.14  | 0.00          | 0.95          | 3.48           | 4.43            | 0.00                                       | 2261.83 |
| 01.10.2021 | 31.01.2022        | 11.29                               | 10.38                 | 92.00               | 0.00                                | 0.00                      | 8.22   | 2.16   | 1403.90  | 10.38 | 92.00 | 0.00                                   | 0.00                             | 0.02   | 0.00   | 0.00   | 0.02 | 0.18  | 0.00          | 8.24          | 2.16           | 10.40           | 0.00                                       | 1403.90 |
| 01.02.2022 | 28.02.2022        | 3.17                                | 1.50                  | 47.10               | 0.00                                | 0.00                      | 0.11   | 1.39   | 903.43   | 1.50  | 47.10 | 0.00                                   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | 0.00  | 0.00          | 0.11          | 1.39           | 1.50            | 0.00                                       | 903.43  |
| 01.03.2022 | 31.08.2022        | 19.22                               | 4.70                  | 24.45               | 0.00                                | 0.00                      | 0.08   | 4.62   | 3035.03  | 4.70  | 24.45 | 0.00                                   | 0.00                             | 0.01   | 0.00   | 0.00   | 0.01 | 0.05  | 0.00          | 0.09          | 4.62           | 4.71            | 0.00                                       | 3035.03 |
| 01.09.2022 | Till date Dec' 22 | 9.78                                | 6.64                  | 67.88               | 0.00                                | 0.00                      | 5.73   | 0.90   | 998.10   | 6.63  | 67.78 | 0.00                                   | 0.00                             | 0.01   | 0.00   | 0.00   | 0.01 | 0.10  | 0.00          | 5.74          | 0.90           | 6.64            | 0.00                                       | 998.10  |

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| Period     |                   | Pond Ash             |                       |                     |   |                           |   |   |  |       |       | Dry Fly Ash                                  |                                  |  |   |  |       | Total |               |               | Total          |                 |  |
|------------|-------------------|----------------------|-----------------------|---------------------|---|---------------------------|---|---|--|-------|-------|--|----------------------------------|--|---|--|-------|-------|---------------|---------------|----------------|-----------------|--|
|            |                   | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %     | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %     | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |
| 2009       | 2010              | 52.31                | 38.79                 | 74.14               | 0.00                                      | 0.00                      | 25.83   | 0.00  | 0.00   | 25.83 | 49.38 | 0.00   | 2.27                             | 12.96  | 0.00  | 0.00   | 12.96 | 24.77 | 0.00          | 38.79         | 0.00           | 2.27            | 0.00   |
| 2010       | 2011              | 53.40                | 21.40                 | 40.08               | 0.00                                      | 0.00                      | 13.85   | 0.00  | 0.00   | 13.85 | 25.94 | 0.00   | 29.09                            | 7.55   | 0.00  | 0.00   | 7.55  | 14.14 | 0.00          | 21.40         | 0.00           | 29.09           | 0.00   |
| 2011       | 2012              | 54.07                | 37.44                 | 69.24               | 0.00                                      | 0.00                      | 35.57   | 0.00  | 0.00   | 35.57 | 65.79 | 1.67   | 37.77                            | 0.20   | 0.00  | 0.00   | 1.87  | 3.46  | 1.67          | 35.77         | 0.00           | 37.77           | 0.00   |
| 2012       | 2013              | 64.39                | 24.18                 | 37.55               | 0.00                                      | 0.00                      | 22.34   | 0.00  | 0.00   | 22.34 | 34.70 | 0.00   | 23.20                            | 1.83   | 0.00  | 0.00   | 1.83  | 2.84  | 0.00          | 24.17         | 0.00           | 23.20           | 0.00   |
| 2013       | 2014              | 62.26                | 19.88                 | 31.93               | 0.00                                      | 0.00                      | 18.75   | 0.00  | 0.00   | 18.75 | 30.12 | 0.30   | 18.60                            | 0.83   | 0.00  | 0.00   | 1.13  | 1.82  | 0.30          | 19.58         | 0.00           | 18.60           | 0.00   |
| 2014       | 2015              | 61.14                | 19.01                 | 31.10               | 0.00                                      | 0.00                      | 17.86   | 0.00  | 0.00   | 17.86 | 29.21 | 0.00   | 15.25                            | 1.15   | 0.00  | 0.00   | 1.15  | 1.88  | 0.00          | 19.01         | 0.00           | 15.25           | 0.00   |
| 2015       | 2016              | 59.32                | 18.06                 | 30.45               | 0.00                                      | 0.00                      | 16.51   | 0.00  | 0.00   | 16.51 | 27.83 | 0.00   | 0.42                             | 1.55   | 0.00  | 0.00   | 1.55  | 2.61  | 0.00          | 18.06         | 0.00           | 0.42            | 0.00   |
| 2016       | 2017              | 50.61                | 22.79                 | 45.03               | 0.00                                      | 0.00                      | 20.85   | 0.00  | 0.00   | 20.85 | 41.20 | 0.00   | 1.06                             | 1.94   | 0.00  | 0.00   | 1.94  | 3.83  | 0.00          | 22.79         | 0.00           | 1.06            | 0.00   |
| 2017       | 2018              | 47.84                | 20.61                 | 43.08               | 0.00                                      | 0.00                      | 19.07   | 0.00  | 0.00   | 19.07 | 39.86 | 0.00   | 85.26                            | 1.54   | 0.00  | 0.00   | 1.54  | 3.22  | 0.00          | 20.61         | 0.00           | 85.26           | 0.00   |
| 2018       | 2019              | 54.12                | 27.66                 | 51.11               | 0.00                                      | 0.00                      | 26.31   | 0.77  | 46.17  | 27.08 | 50.04 | 0.00   | 0.00                             | 0.57   | 0.00  | 0.00   | 0.57  | 1.05  | 0.00          | 26.88         | 0.77           | 0.00            | 46.17  |
| 2019       | 2020              | 48.47                | 37.36                 | 77.08               | 0.00                                      | 0.00                      | 19.22   | 6.40  | 0.00   | 25.62 | 52.86 | 6.25   | 98.53                            | 5.49   | 0.00  | 0.00   | 11.74 | 24.22 | 6.25          | 24.71         | 6.40           | 98.53           | 0.00   |
| 2020       | 2021              | 47.93                | 34.63                 | 72.25               | 0.00                                      | 0.00                      | 26.11   | 7.80  | 783.99   | 33.91 | 70.75 | 0.00   | 60.00                            | 0.72   | 0.00  | 0.00   | 0.72  | 1.50  | 0.00          | 26.83         | 7.80           | 60.00           | 783.99   |
| 2021       | 2022              | 51.67                | 28.65                 | 55.45               | 0.00                                      | 0.00                      | 17.01   | 10.84   | 1441.61  | 27.85 | 53.90 | 0.00   | 45.00                            | 0.80   | 0.00  | 0.00   | 0.80  | 1.55  | 0.00          | 17.81         | 10.84          | 45.00           | 1441.61  |
| 2021       | 2022 (Till Nov)   | 34.96                | 19.67                 | 56.26               | 0.00                                      | 0.00                      | 10.82   | 8.37  | 1113.13  | 19.19 | 54.89 | 0.00   | 0.00                             | 0.48   | 0.00  | 0.00   | 0.48  | 1.37  | 0.00          | 11.30         | 8.37           | 0.00            | 1113.13  |
| 2022       | 2023 (Till Nov)   | 34.01                | 14.20                 | 41.75               | 0.00                                      | 0.00                      | 6.17  | 7.62  | 1472.00  | 13.79 | 40.55 | 0.00   | 0.00                             | 0.41   | 0.00  | 0.00   | 0.41  | 1.21  | 0.00          | 6.58          | 7.62           | 0.00            | 1472.00  |
| 01.04.2021 | 30.09.2021        | 25.80                | 16.26                 | 63.02               | 0.00                                      | 0.00                      | 8.45  | 7.52  | 1000.08  | 15.97 | 61.90 | 0.00   | 0.00                             | 0.29   | 0.00  | 0.00   | 0.29  | 1.12  | 0.00          | 8.74          | 7.52           | 0.00            | 1000.08  |
| 01.10.2021 | 31.01.2022        | 17.61                | 8.37                  | 47.54               | 0.00                                      | 0.00                      | 6.29  | 1.74  | 231.40   | 8.03  | 45.61 | 0.00   | 0.00                             | 0.34   | 0.00  | 0.00   | 0.34  | 1.93  | 0.00          | 6.63          | 1.74           | 0.00            | 231.40   |
| 01.02.2022 | 28.02.2022        | 4.56                 | 2.63                  | 57.62               | 0.00                                      | 0.00                      | 1.49  | 1.03  | 136.98   | 2.52  | 55.25 | 0.10   | 0.00                             | 0.00   | 0.00  | 0.00   | 0.10  | 2.19  | 0.10          | 1.49          | 1.03           | 0.00            | 136.98   |
| 01.03.2022 | 31.08.2022        | 24.74                | 10.48                 | 42.37               | 0.00                                      | 0.00                      | 5.80  | 4.40  | 849.97   | 10.20 | 41.23 | 0.28   | 0.00                             | 0.00   | 0.00  | 0.00   | 0.28  | 1.13  | 0.28          | 5.80          | 4.40           | 0.00            | 849.97   |
| 01.09.2022 | Till date Dec' 22 | 12.97                | 5.11                  | 39.43               | 0.00                                      | 0.00                      | 1.15  | 3.77  | 728.27   | 4.92  | 37.94 | 0.19   | 0.00                             | 0.00   | 0.00  | 0.00   | 0.19  | 1.47  | 0.19          | 1.15          | 3.77           | 0.00            | 728.27   |

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|            |                      | Pond Ash              |                     |   |                           |  |   |  |          |       |  | Dry Fly Ash                      |  |  |  |      |       | Total         |               |                | Total           |   |          |
|------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|--|----------|-------|--|----------------------------------|--|--|--|------|-------|---------------|---------------|----------------|-----------------|---|----------|
| Period     | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT      | %     | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %     | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportati on cost by NTPC (Lakhs) |          |
| 2009       | 2010                 | 30.31                 | 6.99                | 23.05                                     | 0.00                      | 0.00   | 6.07  | 0.00   | 0.00     | 6.07  | 20.03  | 0.87                             | 3.74   | 0.04   | 0.00   | 0.00 | 0.91  | 3.00          | 0.87          | 6.11           | 0.00            | 3.74  | 0.00     |
| 2010       | 2011                 | 38.12                 | 9.12                | 23.93                                     | 0.00                      | 0.00   | 7.86  | 0.00   | 0.00     | 7.86  | 20.62  | 1.23                             | 148.27   | 0.03   | 0.00   | 0.00 | 1.26  | 3.30          | 1.23          | 7.89           | 0.00            | 148.27  | 0.00     |
| 2011       | 2012                 | 39.19                 | 9.60                | 24.49                                     | 0.00                      | 0.00   | 8.03  | 0.00   | 0.00     | 8.03  | 20.49  | 1.51                             | 165.32   | 0.06   | 0.00   | 0.00 | 1.57  | 4.01          | 1.51          | 8.09           | 0.00            | 165.32  | 0.00     |
| 2012       | 2013                 | 45.63                 | 10.22               | 22.40                                     | 0.00                      | 0.00   | 7.07  | 0.00   | 0.00     | 7.07  | 15.49  | 3.01                             | 295.04   | 0.14   | 0.00   | 0.00 | 3.15  | 6.90          | 3.01          | 7.21           | 0.00            | 295.04  | 0.00     |
| 2013       | 2014                 | 47.34                 | 10.76               | 22.72                                     | 0.00                      | 0.00   | 6.26  | 0.00   | 0.00     | 6.26  | 13.22  | 2.62                             | 374.07   | 1.87   | 0.00   | 0.00 | 4.49  | 9.48          | 2.62          | 8.13           | 0.00            | 374.07  | 0.00     |
| 2014       | 2015                 | 56.48                 | 16.87               | 29.87                                     | 0.00                      | 0.00   | 11.75   | 0.00   | 0.00     | 11.75 | 20.80  | 2.70                             | 356.71   | 2.41   | 0.00   | 0.00 | 5.11  | 9.05          | 2.70          | 14.16          | 0.00            | 356.71  | 0.00     |
| 2015       | 2016                 | 51.18                 | 20.99               | 41.02                                     | 0.00                      | 0.00   | 12.06   | 0.00   | 0.00     | 12.06 | 23.57  | 6.53                             | 848.33   | 2.41   | 0.00   | 0.00 | 8.94  | 17.47         | 6.53          | 14.47          | 0.00            | 848.33  | 0.00     |
| 2016       | 2017                 | 50.54                 | 22.28               | 44.08                                     | 0.00                      | 0.00   | 13.94   | 0.00   | 0.00     | 13.94 | 27.58  | 6.53                             | 1136.05  | 1.81   | 0.00   | 0.00 | 8.34  | 16.50         | 6.53          | 15.75          | 0.00            | 1136.05   | 0.00     |
| 2017       | 2018                 | 41.85                 | 19.19               | 45.85                                     | 0.00                      | 0.00   | 12.73   | 0.00   | 0.00     | 12.73 | 30.42  | 5.00                             | 960.64   | 1.46   | 0.00   | 0.00 | 6.46  | 15.44         | 5.00          | 14.19          | 0.00            | 960.64  | 0.00     |
| 2018       | 2019                 | 43.18                 | 20.87               | 48.33                                     | 0.00                      | 0.00   | 12.31   | 0.00   | 0.00     | 12.31 | 28.51  | 5.89                             | 1284.30  | 2.68   | 0.00   | 0.00 | 8.57  | 19.85         | 5.89          | 14.99          | 0.00            | 1284.30   | 0.00     |
| 2019       | 2020                 | 48.48                 | 34.28               | 70.71                                     | 0.00                      | 0.00   | 18.76   | 6.40   | 3355.10  | 25.16 | 51.90  | 6.71                             | 1572.37  | 2.41   | 0.00   | 0.00 | 9.12  | 18.81         | 6.71          | 21.17          | 6.40            | 1572.37   | 3355.10  |
| 2020       | 2021                 | 40.17                 | 41.54               | 103.41                                    | 0.00                      | 0.00   | 8.39  | 23.17  | 15011.72 | 31.56 | 78.57  | 7.88                             | 1921.60  | 2.10   | 0.00   | 0.00 | 9.98  | 24.84         | 7.88          | 10.49          | 23.17           | 1921.60   | 15011.72 |
| 2021       | 2022                 | 42.31                 | 33.27               | 78.63                                     | 0.00                      | 0.00   | 4.73  | 17.63  | 23373.36 | 22.36 | 52.85  | 8.56                             | 2112.97  | 2.35   | 0.00   | 0.00 | 10.91 | 25.79         | 8.56          | 7.08           | 17.63           | 2112.97   | 23373.36 |
| 2021       | 2022 (Till Nov)      | 30.22                 | 21.41               | 70.85                                     | 0.00                      | 0.00   | 4.42  | 10.13  | 13430.07 | 14.55 | 48.15  | 5.41                             | 1335.42  | 1.45   | 0.00   | 0.00 | 6.86  | 22.70         | 5.41          | 5.87           | 10.13           | 1335.42   | 13430.07 |
| 2022       | 2023 (Till Nov)      | 23.77                 | 31.83               | 133.91                                    | 0.00                      | 0.00   | 0.84  | 24.48  | 12908.00 | 25.32 | 106.52                                       | 5.25                             | 1682.00  | 1.26   | 0.00   | 0.00 | 6.51  | 27.39         | 5.25          | 2.10           | 24.48           | 1682.00   | 12908.00 |
| 01.04.2021 | 30.09.2021           | 24.11                 | 17.14               | 71.09                                     | 0.00                      | 0.00   | 3.47  | 8.76   | 11613.75 | 12.23 | 50.73  | 3.78                             | 933.06   | 1.13   | 0.00   | 0.00 | 4.91  | 20.36         | 3.78          | 4.60           | 8.76            | 933.06  | 11613.75 |
| 01.10.2021 | 31.01.2022           | 12.51                 | 13.40               | 107.15                                    | 0.00                      | 0.00   | 1.23  | 8.18   | 10844.80 | 9.41  | 75.23  | 3.20                             | 828.76   | 0.80   | 0.00   | 0.00 | 4.00  | 31.98         | 3.20          | 2.03           | 8.18            | 828.76  | 10844.80 |
| 01.02.2022 | 28.02.2022           | 2.92                  | 1.38                | 47.42                                     | 0.00                      | 0.00   | 0.00  | 0.40   | 530.31   | 0.40  | 13.72  | 0.76                             | 206.43   | 0.23   | 0.00   | 0.00 | 0.99  | 33.96         | 0.76          | 0.23           | 0.40            | 206.43  | 530.31   |
| 01.03.2022 | 31.08.2022           | 19.53                 | 21.48               | 110.01                                    | 0.00                      | 0.00   | 0.85  | 15.03  | 7925.13  | 15.88 | 81.32  | 4.27                             | 1127.95  | 1.33   | 0.00   | 0.00 | 5.60  | 28.68         | 4.27          | 2.18           | 15.03           | 1127.95   | 7925.13  |
| 01.09.2022 | Till date Dec' 22    | 7.02                  | 11.70               | 166.66                                    | 0.00                      | 0.00   | 0.00  | 9.75   | 5141.05  | 9.75  | 138.85                                       | 1.81                             | 554.05   | 0.15   | 0.00   | 0.00 | 1.96  | 27.91         | 1.81          | 0.15           | 9.75            | 554.05  | 5141.05  |

2,112.97  
8.56  
246.84

Kahalgaon

| Period     |                   | Pond Ash             |                       |                     |   |                           |  |   |  |       |        | Dry Fly Ash                                  |                                  |   |  |  |       | Total |               |               | Total          |                 |  |
|------------|-------------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|--|-------|--------|--|----------------------------------|---|--|--|-------|-------|---------------|---------------|----------------|-----------------|--|
|            |                   | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %      | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II -Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %     | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |
| 2009       | 2010              | 28.47                | 23.62                 | 82.99               | 0.00                                      | 0.00                      | 10.82  | 0.00  | 0.00   | 10.82 | 38.02  | 12.74  | 2.75                             | 0.06  | 0.00   | 0.00   | 12.80 | 44.97 | 12.74         | 10.88         | 0.00           | 2.75            | 0.00   |
| 2010       | 2011              | 24.81                | 21.57                 | 86.94               | 0.00                                      | 0.00                      | 10.74  | 0.00  | 0.00   | 10.74 | 43.30  | 10.74  | 3.02                             | 0.08  | 0.00   | 0.00   | 10.82 | 43.62 | 10.74         | 10.82         | 0.00           | 3.02            | 0.00   |
| 2011       | 2012              | 22.07                | 19.81                 | 89.76               | 0.00                                      | 0.00                      | 10.56  | 0.00  | 0.00   | 10.56 | 47.85  | 9.18   | 0.00                             | 0.07  | 0.00   | 0.00   | 9.25  | 41.90 | 9.18          | 10.63         | 0.00           | 0.00            | 0.00   |
| 2012       | 2013              | 36.47                | 33.34                 | 91.40               | 0.00                                      | 0.00                      | 22.70  | 0.00  | 0.00   | 22.70 | 62.24  | 10.54  | 0.00                             | 0.10  | 0.00   | 0.00   | 10.64 | 29.16 | 10.54         | 22.80         | 0.00           | 0.00            | 0.00   |
| 2013       | 2014              | 36.13                | 12.90                 | 35.71               | 0.00                                      | 0.00                      | 8.74   | 0.00  | 0.00   | 8.74  | 24.19  | 3.94   | 121.88                           | 0.23  | 0.00   | 0.00   | 4.17  | 11.54 | 3.94          | 8.97          | 0.00           | 121.88          | 0.00   |
| 2014       | 2015              | 36.18                | 10.07                 | 27.83               | 0.00                                      | 0.00                      | 5.35   | 0.00  | 0.00   | 5.35  | 14.78  | 4.57   | 611.66                           | 0.15  | 0.00   | 0.00   | 4.72  | 13.04 | 4.57          | 5.50          | 0.00           | 611.66          | 0.00   |
| 2015       | 2016              | 29.37                | 8.82                  | 30.02               | 0.00                                      | 0.00                      | 7.28   | 0.00  | 0.00   | 7.28  | 24.78  | 1.42   | 605.15                           | 0.12  | 0.00   | 0.00   | 1.54  | 5.24  | 1.42          | 7.40          | 0.00           | 605.15          | 0.00   |
| 2016       | 2017              | 30.36                | 16.76                 | 55.20               | 0.00                                      | 0.00                      | 13.25  | 0.61  | 0.00   | 13.86 | 45.66  | 2.60   | 596.55                           | 0.30  | 0.00   | 0.00   | 2.90  | 9.55  | 2.60          | 13.55         | 0.61           | 596.55          | 0.00   |
| 2017       | 2018              | 30.19                | 16.00                 | 53.00               | 0.00                                      | 0.00                      | 10.37  | 1.49  | 0.00   | 11.86 | 39.28  | 3.62   | 413.19                           | 0.52  | 0.00   | 0.00   | 4.14  | 13.71 | 3.62          | 10.89         | 1.49           | 413.19          | 0.00   |
| 2018       | 2019              | 31.34                | 25.12                 | 80.15               | 0.00                                      | 0.00                      | 20.35  | 0.80  | 646.97   | 21.15 | 67.49  | 3.52   | 1721.26                          | 0.44  | 0.00   | 0.00   | 3.96  | 12.64 | 3.52          | 20.79         | 0.80           | 1721.26         | 646.97   |
| 2019       | 2020              | 31.81                | 40.65                 | 127.79              | 0.00                                      | 0.00                      | 8.22   | 29.19   | 25303.56   | 37.41 | 117.60 | 2.83   | 1165.14                          | 0.40  | 0.00   | 0.00   | 3.23  | 10.15 | 2.83          | 8.62          | 29.19          | 1165.14         | 25303.56   |
| 2020       | 2021              | 28.25                | 36.15                 | 127.96              | 0.00                                      | 0.00                      | 6.97   | 25.41   | 21699.23   | 32.38 | 114.62 | 2.62   | 1434.12                          | 1.15  | 0.00   | 0.00   | 3.77  | 13.35 | 2.62          | 8.12          | 25.41          | 1434.12         | 21699.23   |
| 2021       | 2022              | 27.28                | 38.22                 | 140.10              | 0.00                                      | 0.00                      | 8.00   | 27.36   | 29584.82   | 35.36 | 129.62 | 2.48   | 1296.11                          | 0.38  | 0.00   | 0.00   | 2.86  | 10.48 | 2.48          | 8.38          | 27.36          | 1296.11         | 29584.82   |
| 2021       | 2022( Till Nov)   | 18.43                | 19.41                 | 105.32              | 0.00                                      | 0.00                      | 1.56   | 15.86   | 17149.68   | 17.42 | 94.52  | 1.67   | 653.28                           | 0.32  | 0.00   | 0.00   | 1.99  | 10.80 | 1.67          | 1.88          | 15.86          | 653.28          | 17149.68   |
| 2022       | 2023 (Till Nov)   | 15.36                | 37.11                 | 241.60              | 0.00                                      | 0.00                      | 1.38   | 33.53   | 22112.00   | 34.91 | 227.28 | 1.25   | 846.79                           | 0.95  | 0.00   | 0.00   | 2.20  | 14.32 | 1.25          | 2.33          | 33.53          | 846.79          | 22112.00   |
| 01.04.2021 | 30.09.2021        | 14.07                | 18.54                 | 131.77              | 0.00                                      | 0.00                      | 1.17   | 15.71   | 16987.48   | 16.88 | 119.97 | 1.39   | 726.45                           | 0.27  | 0.00   | 0.00   | 1.66  | 11.80 | 1.39          | 1.44          | 15.71          | 726.45          | 16987.48   |
| 01.10.2021 | 31.01.2022        | 9.27                 | 17.64                 | 190.31              | 0.00                                      | 0.00                      | 6.43   | 10.39   | 11234.88   | 16.82 | 181.43 | 0.72   | 376.29                           | 0.10  | 0.00   | 0.00   | 0.82  | 8.84  | 0.72          | 6.53          | 10.39          | 376.29          | 11234.88   |
| 01.02.2022 | 28.02.2022        | 2.12                 | 1.59                  | 75.09               | 0.00                                      | 0.00                      | 0.20   | 1.26  | 1362.46  | 1.46  | 68.84  | 0.12   | 62.71                            | 0.00  | 0.00   | 0.00   | 0.12  | 5.66  | 0.12          | 0.20          | 1.26           | 62.71           | 1362.46  |
| 01.03.2022 | 31.08.2022        | 11.88                | 22.50                 | 189.48              | 0.00                                      | 0.00                      | 1.07   | 19.59   | 12918.82   | 20.66 | 173.97 | 0.99   | 602.45                           | 0.85  | 0.00   | 0.00   | 1.84  | 15.49 | 0.99          | 1.92          | 19.59          | 602.45          | 12918.82   |
| 01.09.2022 | Till date Dec' 22 | 5.90                 | 15.06                 | 255.24              | 0.00                                      | 0.00                      | 0.49   | 13.94   | 9192.87  | 14.43 | 244.61 | 0.51   | 244.34                           | 0.11  | 0.00   | 0.00   | 0.62  | 10.51 | 0.51          | 0.60          | 13.94          | 244.34          | 9192.87  |

|           |
|-----------|
| 646.97    |
| 25,303.56 |
| 21,699.23 |
| 29,584.82 |

*Farakka*

| Period     |                    | Pond Ash             |                       |                     |   |                           |   |   |  |       |        | Dry Fly Ash                                  |                                  |  |  |  |       | Total |               |               | Total          |                 |  |
|------------|--------------------|----------------------|-----------------------|---------------------|---|---------------------------|---|---|--|-------|--------|--|----------------------------------|--|--|--|-------|-------|---------------|---------------|----------------|-----------------|--|
|            |                    | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportat | Qty Tied up through Free Issue with Transportat | Expenditure on Transportation cost by NTPC | LMT   | %      | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue | Ash Utilization Through Step-III Free Issue with Transportatio | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %     | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |
| 2009       | 2010               | 22.09                | 20.48                 | 92.73               | 0.00                                      | 0.00                      | 1.67  | 0.00  | 0.00                                       | 1.67  | 7.56   | 18.78  | 1.47                             | 0.04   | 0.00   | 0.00   | 18.82 | 85.20 | 18.78         | 1.71          | 0.00           | 1.47            | 0.00   |
| 2010       | 2011               | 23.21                | 20.27                 | 87.33               | 0.00                                      | 0.00                      | 2.81  | 0.00  | 0.00                                       | 2.81  | 12.11  | 17.41  | 1484.36                          | 0.04   | 0.00   | 0.00   | 17.45 | 75.20 | 17.41         | 2.85          | 0.00           | 1484.36         | 0.00   |
| 2011       | 2012               | 25.73                | 19.32                 | 75.10               | 0.00                                      | 0.00                      | 3.26  | 0.00  | 0.00                                       | 3.26  | 12.67  | 16.05  | 1778.68                          | 0.01   | 0.00   | 0.00   | 16.06 | 62.41 | 16.05         | 3.27          | 0.00           | 1778.68         | 0.00   |
| 2012       | 2013               | 24.54                | 15.33                 | 62.49               | 0.00                                      | 0.00                      | 2.52  | 0.00  | 0.00                                       | 2.52  | 10.27  | 12.78  | 1921.20                          | 0.04   | 0.00   | 0.00   | 12.82 | 52.24 | 12.78         | 2.56          | 0.00           | 1921.20         | 0.00   |
| 2013       | 2014               | 22.07                | 14.08                 | 63.78               | 0.00                                      | 0.00                      | 1.16  | 0.00  | 0.00                                       | 1.16  | 5.25   | 12.80  | 2117.61                          | 0.12   | 0.00   | 0.00   | 12.92 | 58.53 | 12.80         | 1.28          | 0.00           | 2117.61         | 0.00   |
| 2014       | 2015               | 19.25                | 13.62                 | 70.75               | 0.00                                      | 0.00                      | 0.33  | 0.00  | 0.00                                       | 0.33  | 1.71   | 13.00  | 2171.27                          | 0.28   | 0.00   | 0.00   | 13.28 | 68.99 | 13.00         | 0.61          | 0.00           | 2171.27         | 0.00   |
| 2015       | 2016               | 17.87                | 18.18                 | 101.72              | 0.00                                      | 0.00                      | 5.77  | 0.00  | 0.00                                       | 5.77  | 32.28  | 12.26  | 2053.74                          | 0.16   | 0.00   | 0.00   | 12.42 | 69.49 | 12.26         | 5.93          | 0.00           | 2053.74         | 0.00   |
| 2016       | 2017               | 14.87                | 18.74                 | 126.03              | 0.00                                      | 0.00                      | 8.31  | 0.00  | 0.00                                       | 8.31  | 55.88  | 10.20  | 1924.43                          | 0.24   | 0.00   | 0.00   | 10.44 | 70.21 | 10.20         | 8.55          | 0.00           | 1924.43         | 0.00   |
| 2017       | 2018               | 16.80                | 17.16                 | 102.14              | 0.00                                      | 0.00                      | 6.98  | 0.00  | 0.00                                       | 6.98  | 41.55  | 9.84   | 1858.47                          | 0.34   | 0.00   | 0.00   | 10.18 | 60.60 | 9.84          | 7.32          | 0.00           | 1858.47         | 0.00   |
| 2018       | 2019               | 17.21                | 20.30                 | 117.95              | 0.00                                      | 0.00                      | 0.40  | 9.65  | 15230.95                                   | 10.05 | 58.40  | 9.85   | 1663.11                          | 0.40   | 0.00   | 0.00   | 10.25 | 59.56 | 9.85          | 0.80          | 9.65           | 1663.11         | 15230.95   |
| 2019       | 2020               | 21.65                | 19.57                 | 90.39               | 0.00                                      | 0.00                      | 3.71  | 6.66  | 8926.42                                    | 10.37 | 47.90  | 8.83   | 1439.99                          | 0.36   | 0.00   | 0.00   | 9.19  | 42.45 | 8.83          | 4.07          | 6.66           | 1439.99         | 8926.42  |
| 2020       | 2021               | 19.77                | 32.91                 | 166.46              | 0.00                                      | 0.00                      | 0.00  | 24.61   | 15817.35                                   | 24.61 | 124.48 | 7.86   | 1328.24                          | 0.44   | 0.00   | 0.00   | 8.30  | 41.98 | 7.86          | 0.44          | 24.61          | 1328.24         | 15817.35   |
| 2021       | 2022               | 20.85                | 33.19                 | 159.18              | 0.00                                      | 0.00                      | 6.31  | 17.76   | 11831.86                                   | 24.07 | 115.44 | 8.50   | 1468.37                          | 0.61   | 0.00   | 0.00   | 9.11  | 43.69 | 8.50          | 6.92          | 17.76          | 1468.37         | 11831.86   |
| 2021       | 2022 Till November | 13.80                | 15.92                 | 115.36              | 0.00                                      | 0.00                      | 0.01  | 10.10   | 6728.70                                    | 10.11 | 73.26  | 5.37   | 927.67                           | 0.44   | 0.00   | 0.00   | 5.81  | 42.10 | 5.37          | 0.45          | 10.10          | 927.67          | 6728.70  |
| 2022       | 2023 Till November | 12.75                | 10.86                 | 85.18               | 0.00                                      | 0.00                      | 0.59  | 4.56  | 3548.00                                    | 5.15  | 40.39  | 5.70   | 1233.78                          | 0.01   | 0.00   | 0.00   | 5.71  | 44.78 | 5.70          | 0.60          | 4.56           | 1233.78         | 3548.00  |
| 01.04.2021 | 30.09.2021         | 11.20                | 14.90                 | 133.04              | 0.00                                      | 0.00                      | 0.00  | 10.10   | 6728.70                                    | 10.10 | 90.18  | 4.46   | 770.46                           | 0.34   | 0.00   | 0.00   | 4.80  | 42.86 | 4.46          | 0.34          | 10.10          | 770.46          | 6728.70  |
| 01.10.2021 | 31.01.2022         | 6.19                 | 12.54                 | 202.52              | 0.00                                      | 0.00                      | 6.05  | 3.84  | 2558.24                                    | 9.89  | 159.78 | 2.44   | 421.51                           | 0.22   | 0.00   | 0.00   | 2.66  | 42.97 | 2.44          | 6.27          | 3.84           | 421.51          | 2558.24  |
| 01.02.2022 | 28.02.2022         | 1.58                 | 3.75                  | 237.63              | 0.00                                      | 0.00                      | 0.12  | 2.77  | 1845.40                                    | 2.89  | 183.06 | 0.81   | 139.93                           | 0.05   | 0.00   | 0.00   | 0.86  | 54.47 | 0.81          | 0.17          | 2.77           | 139.93          | 1845.40  |
| 01.03.2022 | 31.08.2022         | 11.11                | 8.50                  | 76.54               | 0.00                                      | 0.00                      | 0.50  | 3.37  | 2233.06                                    | 3.87  | 34.84  | 4.62   | 838.36                           | 0.01   | 0.00   | 0.00   | 4.63  | 41.68 | 4.62          | 0.51          | 3.37           | 838.36          | 2233.06  |
| 01.09.2022 | Till date Dec' 22  | 3.52                 | 4.37                  | 124.35              | 0.00                                      | 0.00                      | 0.23  | 2.25  | 1571.70                                    | 2.48  | 70.50  | 1.89   | 395.42                           | 0.00   | 0.00   | 0.00   | 1.89  | 53.73 | 1.89          | 0.23          | 2.25           | 395.42          | 1571.70  |

*Unchakar*

| Period     |                   | Pond Ash             |                       |                     |   |                           |  |   |  |       |        | Dry Fly Ash                                  |                                  |  |  |  |      | Total |               |               | Total          |                 |  |
|------------|-------------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|--|-------|--------|--|----------------------------------|--|--|--|------|-------|---------------|---------------|----------------|-----------------|--|
|            |                   | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %      | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %     | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |
| 2009       | 2010              | 9.70                 | 7.08                  | 73.01               | 0.00                                      | 0.00                      | 3.79   | 0.00  | 0.00   | 3.79  | 39.06  | 3.28   | 0.00                             | 0.02   | 0.00   | 0.00   | 3.30 | 34.01 | 3.28          | 3.81          | 0.00           | 0.00            | 0.00   |
| 2010       | 2011              | 11.59                | 6.96                  | 60.04               | 0.00                                      | 0.00                      | 3.82   | 0.00  | 0.00   | 3.82  | 32.95  | 3.11   | 0.00                             | 0.03   | 0.00   | 0.00   | 3.14 | 27.09 | 3.11          | 3.85          | 0.00           | 0.00            | 0.00   |
| 2011       | 2012              | 13.60                | 8.46                  | 62.25               | 0.00                                      | 0.00                      | 5.44   | 0.00  | 0.00   | 5.44  | 40.01  | 2.98   | 0.00                             | 0.04   | 0.00   | 0.00   | 3.02 | 22.21 | 2.98          | 5.48          | 0.00           | 0.00            | 0.00   |
| 2012       | 2013              | 12.12                | 3.68                  | 30.36               | 0.00                                      | 0.00                      | 2.27   | 0.00  | 0.00   | 2.27  | 18.73  | 1.38   | 0.00                             | 0.02   | 0.00   | 0.00   | 1.40 | 11.55 | 1.38          | 2.29          | 0.00           | 0.00            | 0.00   |
| 2013       | 2014              | 12.22                | 5.04                  | 41.23               | 0.00                                      | 0.00                      | 3.59   | 0.00  | 0.00   | 3.59  | 29.37  | 1.38   | 0.00                             | 0.07   | 0.00   | 0.00   | 1.45 | 11.86 | 1.38          | 3.66          | 0.00           | 0.00            | 0.00   |
| 2014       | 2015              | 10.35                | 5.74                  | 55.43               | 0.00                                      | 0.00                      | 2.70   | 0.00  | 0.00   | 2.70  | 26.08  | 2.18   | 109.78                           | 0.86   | 0.00   | 0.00   | 3.04 | 29.36 | 2.18          | 3.56          | 0.00           | 109.78          | 0.00   |
| 2015       | 2016              | 9.01                 | 9.47                  | 105.05              | 0.00                                      | 0.00                      | 3.95   | 0.00  | 0.00   | 3.95  | 43.83  | 4.41   | 512.67                           | 1.11   | 0.00   | 0.00   | 5.52 | 61.25 | 4.41          | 5.06          | 0.00           | 512.67          | 0.00   |
| 2016       | 2017              | 7.48                 | 8.84                  | 118.18              | 0.00                                      | 0.00                      | 3.43   | 0.00  | 0.00   | 3.43  | 45.86  | 3.47   | 856.43                           | 1.94   | 0.00   | 0.00   | 5.41 | 72.33 | 3.47          | 5.37          | 0.00           | 856.43          | 0.00   |
| 2017       | 2018              | 7.09                 | 10.10                 | 142.45              | 0.00                                      | 0.00                      | 5.43   | 0.00  | 0.00   | 5.43  | 76.59  | 4.39   | 2198.62                          | 0.29   | 0.00   | 0.00   | 4.68 | 66.01 | 4.39          | 5.72          | 0.00           | 2198.62         | 0.00   |
| 2018       | 2019              | 5.44                 | 15.58                 | 286.40              | 0.00                                      | 0.00                      | 3.23   | 8.87  | 4317.57  | 12.10 | 222.43 | 3.45   | 2071.39                          | 0.03   | 0.00   | 0.00   | 3.48 | 63.97 | 3.45          | 3.26          | 8.87           | 2071.39         | 4317.57  |
| 2019       | 2020              | 9.69                 | 15.23                 | 157.17              | 0.00                                      | 0.00                      | 1.72   | 10.00   | 8916.32  | 11.72 | 120.95 | 3.45   | 2207.33                          | 0.06   | 0.00   | 0.00   | 3.51 | 36.22 | 3.45          | 1.78          | 10.00          | 2207.33         | 8916.32  |
| 2020       | 2021              | 16.74                | 28.10                 | 167.86              | 0.00                                      | 0.00                      | 1.97   | 21.48   | 474.06   | 23.45 | 140.08 | 4.56   | 3132.79                          | 0.09   | 0.00   | 0.00   | 4.65 | 27.78 | 4.56          | 2.06          | 21.48          | 3132.79         | 474.06   |
| 2021       | 2022              | 22.56                | 35.56                 | 157.62              | 0.00                                      | 0.00                      | 10.96  | 17.97   | 15494.43   | 28.93 | 128.24 | 6.58   | 3323.94                          | 0.05   | 0.00   | 0.00   | 6.63 | 29.39 | 6.58          | 11.01         | 17.97          | 3323.94         | 15494.43   |
| 2021       | 2022 (Till Nov)   | 15.29                | 13.99                 | 91.50               | 0.00                                      | 0.00                      | 0.89   | 9.73  | 8389.58  | 10.62 | 69.46  | 3.33   | 1682.17                          | 0.04   | 0.00   | 0.00   | 3.37 | 22.04 | 3.33          | 0.93          | 9.73           | 1682.17         | 8389.58  |
| 2022       | 2023 (Till Nov)   | 17.71                | 20.94                 | 118.24              | 0.00                                      | 0.00                      | 0.18   | 17.04   | 8159.00  | 17.22 | 97.23  | 3.7  | 1824.31                          | 0.02   | 0.00   | 0.00   | 3.72 | 21.01 | 3.70          | 0.20          | 17.04          | 1824.31         | 8159.00  |
| 01.04.2021 | 30.09.2021        | 11.45                | 12.47                 | 108.91              | 0.00                                      | 0.00                      | 0.88   | 9.41  | 8113.67  | 10.29 | 89.87  | 2.15   | 1086.094                         | 0.03   | 0.00   | 0.00   | 2.18 | 19.04 | 2.15          | 0.91          | 9.41           | 1086.09         | 8113.67  |
| 01.10.2021 | 31.01.2022        | 6.52                 | 10.81                 | 165.76              | 0.00                                      | 0.00                      | 5.02   | 3.28  | 2828.14  | 8.30  | 127.26 | 2.50   | 1166.87                          | 0.01   | 0.00   | 0.00   | 2.51 | 38.51 | 2.50          | 5.03          | 3.28           | 1166.87         | 2828.14  |
| 01.02.2022 | 28.02.2022        | 2.39                 | 3.88                  | 162.34              | 0.03                                      | 0.03                      | 0.03   | 2.96  | 2552.23  | 3.02  | 126.34 | 0.85   | 345.17                           | 0  | 0.00   | 0.00   | 0.85 | 35.61 | 0.88          | 0.03          | 2.96           | 345.20          | 2552.23  |
| 01.03.2022 | 31.08.2022        | 15.82                | 23.11                 | 146.11              | 0.00                                      | 0.00                      | 5.13   | 13.87   | 6641.09  | 19.00 | 120.11 | 4.1  | 1576.66                          | 0.01   | 0.00   | 0.00   | 4.11 | 25.98 | 4.10          | 5.14          | 13.87          | 1576.66         | 6641.09  |
| 01.09.2022 | Till date Dec' 22 | 4.10                 | 6.23                  | 151.88              | 0.00                                      | 0.00                      | 0.07   | 5.46  | 2614.30  | 5.53  | 134.85 | 0.68   | 247.65                           | 0.01   | 0.00   | 0.00   | 0.69 | 16.83 | 0.68          | 0.08          | 5.46           | 247.65          | 2614.30  |

Tanda



|            |                      | Pond Ash              |                     |   |                           |  |   |  |          |       |  | Dry Fly Ash                      |  |  |  |       |       | Total        |               |                | Total           |  |
|------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|--|----------|-------|--|----------------------------------|--|--|--|-------|-------|--------------|---------------|----------------|-----------------|--|
| Period     | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction, Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency, Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC, Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT      | %     | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %     | Step-I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |
| 2009       | 2010                 | 22.18                 | 10.00               | 45.09                                     | 0.00                      | 0.00   | 5.73  | 0.00   | 5.73     | 25.84 | 0.00   | 69.84                            | 4.27   | 0.00   | 4.27   | 19.26 | 0.00  | 10.00        | 0.00          | 0.00           | 69.84           | 0.00   |
| 2010       | 2011                 | 21.92                 | 13.16               | 60.04                                     | 0.00                      | 0.00   | 9.63  | 0.00   | 9.63     | 43.93 | 3.53   | 73.70                            | 0.00   | 0.00   | 3.53   | 16.10 | 3.53  | 9.63         | 0.00          | 0.00           | 73.70           | 0.00   |
| 2011       | 2012                 | 28.16                 | 16.90               | 60.03                                     | 0.00                      | 0.00   | 12.18   | 0.00   | 12.18    | 43.25 | 4.72   | 8.74                             | 0.00   | 0.00   | 4.72   | 16.76 | 4.72  | 12.18        | 0.00          | 0.00           | 8.74            | 0.00   |
| 2012       | 2013                 | 32.25                 | 19.60               | 60.78                                     | 0.00                      | 0.00   | 15.99   | 0.00   | 15.99    | 49.58 | 3.61   | 0.00                             | 0.00   | 0.00   | 3.61   | 11.19 | 3.61  | 15.99        | 0.00          | 0.00           | 0.00            | 0.00   |
| 2013       | 2014                 | 34.40                 | 14.38               | 41.81                                     | 0.00                      | 0.00   | 10.51   | 0.00   | 10.51    | 30.55 | 1.27   | 0.00                             | 2.60   | 0.00   | 3.87   | 11.25 | 1.27  | 13.11        | 0.00          | 0.00           | 0.00            | 0.00   |
| 2014       | 2015                 | 29.30                 | 9.85                | 33.63                                     | 0.00                      | 0.00   | 5.83  | 0.00   | 5.83     | 19.90 | 1.09   | 0.00                             | 2.93   | 0.00   | 4.02   | 13.77 | 1.09  | 8.76         | 0.00          | 0.00           | 0.00            | 0.00   |
| 2015       | 2016                 | 29.23                 | 10.33               | 35.35                                     | 0.00                      | 0.00   | 4.95  | 0.00   | 4.95     | 16.93 | 1.53   | 0.00                             | 3.85   | 0.00   | 5.38   | 18.40 | 1.53  | 8.80         | 0.00          | 0.00           | 0.00            | 0.00   |
| 2016       | 2017                 | 30.58                 | 25.58               | 83.65                                     | 0.00                      | 0.00   | 18.33   | 0.00   | 18.33    | 59.94 | 2.48   | 47.18                            | 4.77   | 0.00   | 7.25   | 23.71 | 2.48  | 23.10        | 0.00          | 0.00           | 47.18           | 0.00   |
| 2017       | 2018                 | 30.11                 | 30.58               | 101.56                                    | 0.00                      | 0.00   | 18.26   | 0.00   | 18.26    | 60.64 | 4.70   | 30.74                            | 7.62   | 0.00   | 12.32  | 40.92 | 4.70  | 25.88        | 0.00          | 0.00           | 30.74           | 0.00   |
| 2018       | 2019                 | 29.76                 | 29.81               | 100.18                                    | 0.00                      | 0.00   | 11.27   | 7.78   | 5081.07  | 19.05 | 64.02  | 102.77                           | 5.37   | 0.00   | 10.76  | 36.16 | 5.39  | 16.64        | 7.78          | 102.77         | 5081.07         | 0.00   |
| 2019       | 2020                 | 26.41                 | 44.66               | 169.09                                    | 0.00                      | 0.00   | 8.73  | 28.11  | 15291.23 | 36.84 | 139.49                                       | 3.45                             | 163.69   | 4.36   | 0.00   | 7.81  | 29.57 | 3.45         | 13.09         | 28.11          | 163.69          | 15291.23   |
| 2020       | 2021                 | 24.50                 | 30.33               | 123.80                                    | 0.00                      | 0.00   | 0.58  | 21.64  | 7491.47  | 22.22 | 90.69  | 3.24                             | 76.00  | 4.88   | 0.00   | 8.12  | 33.14 | 3.24         | 5.46          | 21.64          | 76.00           | 7491.47  |
| 2021       | 2022                 | 35.77                 | 40.19               | 112.36                                    | 0.00                      | 0.00   | 7.61  | 22.09  | 9449.58  | 29.70 | 83.03  | 3.83                             | 131.29   | 6.66   | 0.00   | 10.49 | 29.33 | 3.83         | 14.27         | 22.09          | 131.29          | 9449.58  |
| 2021       | 2022 Till Nov        | 22.08                 | 17.90               | 81.07                                     | 0.00                      | 0.00   | 0.22  | 11.21  | 4795.37  | 11.43 | 51.77  | 81.93                            | 4.08   | 0.00   | 6.47   | 29.30 | 2.39  | 4.30         | 11.21         | 81.93          | 4795.37         | 0.00   |
| 2022       | 2023 Till Nov        | 21.58                 | 39.17               | 181.51                                    | 0.00                      | 0.00   | 2.41  | 31.50  | 9433.00  | 33.91 | 157.14                                       | 1.62                             | 94.73  | 3.64   | 0.00   | 5.26  | 24.37 | 1.62         | 6.05          | 31.50          | 94.73           | 9433.00  |
| 01.04.2021 | 30.09.2021           | 16.44                 | 15.27               | 92.88                                     | 0.00                      | 0.00   | 0.00  | 10.33  | 3093.43  | 10.33 | 62.83  | 1.81                             | 36.20  | 3.11   | 0.00   | 4.92  | 29.93 | 1.81         | 3.11          | 10.33          | 36.20           | 3093.43  |
| 01.10.2021 | 31.01.2022           | 12.14                 | 15.37               | 126.61                                    | 0.00                      | 0.00   | 6.34  | 5.32   | 2275.77  | 11.66 | 96.05  | 1.38                             | 27.60  | 2.33   | 0.00   | 3.71  | 30.56 | 1.38         | 8.67          | 5.32           | 27.60           | 2275.77  |
| 01.02.2022 | 28.02.2022           | 3.15                  | 3.39                | 107.71                                    | 0.00                      | 0.00   | 0.49  | 1.96   | 838.44   | 2.45  | 77.84  | 0.30                             | 6.00   | 0.64   | 0.00   | 0.94  | 29.87 | 0.30         | 1.13          | 1.96           | 6.00            | 838.44   |
| 01.03.2022 | 31.08.2022           | 17.70                 | 33.74               | 190.62                                    | 0.00                      | 0.00   | 2.56  | 26.94  | 8067.46  | 29.50 | 166.67                                       | 1.18                             | 50.79  | 3.06   | 0.00   | 4.24  | 23.95 | 1.18         | 5.62          | 26.94          | 50.79           | 8067.46  |
| 01.09.2022 | Till date Dec' 22    | 7.92                  | 11.58               | 146.15                                    | 0.00                      | 0.00   | 0.64  | 9.04   | 2707.12  | 9.68  | 122.17                                       | 0.74                             | 43.94  | 1.16   | 0.00   | 1.90  | 23.98 | 0.74         | 1.80          | 9.04           | 43.94           | 2707.12  |

|           |
|-----------|
| -7.01     |
| 47.18     |
| 30.74     |
| 102.77    |
| 102.77    |
| 163.69    |
| 163.69    |
| 76.00     |
| 131.29    |
| 5,081.07  |
| 15,291.23 |
| 7,491.47  |
| 9,449.58  |

Simahdra

| Period     |                   | Pond Ash                                      |                       |                     |   |                           |  |  |   |       |        | Dry Fly Ash                                  |                                  |  |  |  |       | Total |               | Total         |                |                 |  |
|------------|-------------------|---|-----------------------|---------------------|---|---------------------------|--|--|---|-------|--------|--|----------------------------------|--|--|--|-------|-------|---------------|---------------|----------------|-----------------|--|
|            |                   | Ash Generation (LMT)                          | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportati on cost by Transporter/ Agency. Step-III (Pond Ash) | Qty Tied up through Free Issue with Transportati on cost by NTPC. Step-III | Expenditure on Transportati on cost by NTPC (Lakhs) | LMT   | %      | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %     | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditu re on Transport ation cost by NTPC (Lakhs) |
| 2009       | 2010              | <b>Ash production started from FY 2013-14</b> |                       |                     |   |                           |  |  |   |       |        |  |                                  |  |  |  |       |       |               |               |                |                 |  |
| 2010       | 2011              |   |                       |                     |   |                           |  |  |   |       |        |  |                                  |  |  |  |       |       |               |               |                |                 |  |
| 2011       | 2012              |   |                       |                     |   |                           |  |  |   |       |        |  |                                  |  |  |  |       |       |               |               |                |                 |  |
| 2012       | 2013              |   |                       |                     |   |                           |  |  |   |       |        |  |                                  |  |  |  |       |       |               |               |                |                 |  |
| 2013       | 2014              | 2.38  | 0.03                  | 1.14                | 0.00                                      | 0.00                      | 0.00   | 0.00   | 0.00  | 0.00  | 0.00   | 0.01   | 0.00                             | 0.02   | 0.00   | 0.00   | 0.03  | 1.26  | 0.01          | 0.02          | 0.00           | 0.00            | 0.00   |
| 2014       | 2015              | 4.43  | 0.64                  | 14.41               | 0.00                                      | 0.00                      | 0.58   | 0.00   | 0.00  | 0.58  | 13.08  | 0.00   | 0.00                             | 0.06   | 0.00   | 0.00   | 0.06  | 1.35  | 0.00          | 0.64          | 0.00           | 0.00            | 0.00   |
| 2015       | 2016              | 3.92  | 3.15                  | 80.31               | 0.00                                      | 0.00                      | 0.07   | 0.00   | 0.00  | 0.07  | 1.78   | 0.00   | 0.00                             | 3.07   | 0.00   | 0.00   | 3.07  | 78.27 | 0.00          | 3.14          | 0.00           | 0.00            | 0.00   |
| 2016       | 2017              | 8.98  | 8.99                  | 100.11              | 0.00                                      | 0.00                      | 3.13   | 0.00   | 0.00  | 3.13  | 34.86  | 1.06   | 28.86                            | 4.8  | 0.00   | 0.00   | 5.86  | 65.26 | 1.06          | 7.93          | 0.00           | 28.86           | 0.00   |
| 2017       | 2018              | 19.86   | 13.93                 | 70.14               | 0.00                                      | 0.00                      | 5.01   | 0.00   | 0.00  | 5.01  | 25.23  | 2.46   | 26.50                            | 6.47   | 0.00   | 0.00   | 8.93  | 44.96 | 2.46          | 11.48         | 0.00           | 26.50           | 0.00   |
| 2018       | 2019              | 26.47   | 23.88                 | 90.22               | 0.00                                      | 0.00                      | 4.70   | 6.94   | 2127.65   | 11.64 | 43.97  | 2.98   | 28.39                            | 9.25   | 0.00   | 0.00   | 12.23 | 46.20 | 2.98          | 13.95         | 6.94           | 28.39           | 2127.65  |
| 2019       | 2020              | 23.30   | 23.44                 | 100.60              | 0.00                                      | 0.00                      | 2.93   | 10.81  | 6561.04   | 13.74 | 58.97  | 3.62   | 36.21                            | 6.07   | 0  | 0  | 9.69  | 41.59 | 3.62          | 9.00          | 10.81          | 36.21           | 6561.04  |
| 2020       | 2021              | 17.06   | 21.96                 | 128.72              | 0.00                                      | 0.00                      | 5.31   | 9.97   | 3824.72   | 15.28 | 89.57  | 2.77   | 25.58                            | 3.93   | 0  | 0  | 6.70  | 39.27 | 2.77          | 9.24          | 9.97           | 25.58           | 3824.72  |
| 2021       | 2022              | 34.06   | 37.86                 | 111.16              | 0.00                                      | 0.00                      | 14.50  | 15.57  | 5913.83   | 30.07 | 88.29  | 3.86   | 30.32                            | 3.93   | 0  | 0  | 7.79  | 22.87 | 3.86          | 18.43         | 15.57          | 30.32           | 5913.83  |
| 2021       | 2022 Till Nov     | 23.98   | 18.87                 | 78.69               | 0.00                                      | 0.00                      | 1.98   | 12.43  | 4721.19   | 14.41 | 60.09  | 2.27   | 17.83                            | 2.19   | 0  | 0  | 4.46  | 18.60 | 2.27          | 4.17          | 12.43          | 17.83           | 4721.19  |
| 2022       | 2023 Till Nov     | 22.12   | 17.20                 | 77.76               | 0.00                                      | 0.00                      | 1.08   | 11.63  | 3047.00   | 12.71 | 57.46  | 2.83   | 34.51                            | 1.66   | 0  | 2660.97  | 4.49  | 20.30 | 2.83          | 2.74          | 11.63          | 34.51           | 5707.97  |
| 01.04.2021 | 30.09.2021        | 17.51   | 16.86                 | 96.29               | 0.0                                       | 0.0                       | 1.2  | 9.7  | 3673.8  | 10.88 | 62.14  | 1.72   | 17.21                            | 1.96   | 2.29   | 870.91   | 5.97  | 34.09 | 1.72          | 3.18          | 11.95          | 17.21           | 4544.71  |
| 01.10.2021 | 31.01.2022        | 12.16   | 17.06                 | 140.33              | 0.00                                      | 0.00                      | 12.39  | 1.75   | 433.55  | 14.14 | 116.30 | 1.29   | 12.91                            | 1.63   | 0  | 220.6  | 2.92  | 24.02 | 1.29          | 14.02         | 1.75           | 12.91           | 654.15   |
| 01.02.2022 | 28.02.2022        | 1.96  | 2.15                  | 109.55              | 0.00                                      | 0.00                      | 0.23   | 0.58   | 220.60  | 0.81  | 41.26  | 0.4  | 4.00                             | 0.5  | 0.43   | 163.53   | 1.33  | 67.75 | 0.40          | 0.73          | 1.01           | 4.00            | 384.13   |
| 01.03.2022 | 31.08.2022        | 16.57   | 10.49                 | 63.27               | 0.00                                      | 0.00                      | 0.92   | 5.76   | 1426.90   | 6.68  | 40.31  | 2.2  | 24.06                            | 1.6  | 0  | 726.09   | 3.80  | 22.93 | 2.20          | 2.52          | 5.76           | 24.06           | 2152.99  |
| 01.09.2022 | Till date Dec' 22 | 7.97  | 8.51                  | 106.72              | 0.00                                      | 0.00                      | 0.32   | 6.73   | 1968.31   | 7.05  | 88.43  | 1.05   | 10.45                            | 0.4  | 0  | 1934.88  | 1.45  | 18.19 | 1.05          | 0.72          | 6.73           | 10.45           | 3903.19  |

|       |          |
|-------|----------|
| 28.86 |          |
| 26.50 |          |
| 28.39 | 2,127.65 |
| 36.21 | 6,561.04 |
| 25.58 | 3,824.72 |
| 30.32 | 5,913.83 |

Movda

| Period     |                      | Pond Ash             |                       |                     |  |                           |  |   |  |      |         | Dry Fly Ash                                  |                                  |  |  |  |      | Total   |               |               | Total          |                 |  |
|------------|----------------------|----------------------|-----------------------|---------------------|--|---------------------------|--|---|--|------|---------|--|----------------------------------|--|--|--|------|---------|---------------|---------------|----------------|-----------------|--|
|            |                      | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %       | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %       | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |
| 2009       | 2010                 | 0.00                 | 0.00                  | 0.00                | 0.00                                     | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2010       | 2011                 | 0.00                 | 0.00                  | 0.00                | 0.00                                     | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2011       | 2012                 | 0.00                 | 0.00                  | 0.00                | 0.00                                     | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2012       | 2013                 | 0.00                 | 0.00                  | 0.00                | 0.00                                     | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2013       | 2014                 | 0.00                 | 0.00                  | 0.00                | 0.00                                     | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2014       | 2015                 | 0.00                 | 0.00                  | 0.00                | 0.00                                     | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2015       | 2016                 | 0.00                 | 0.00                  | 0.00                | 0.00                                     | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2016       | 2017                 | 0.00                 | 0.00                  | 0.00                | 0.00                                     | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2017       | 2018                 | 0.00                 | 0.00                  | 0.00                | 0.00                                     | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2018       | 2019                 | 0.00                 | 0.00                  | 0.00                | 0.00                                     | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2019       | 2020                 | 6.44                 | 3.31                  | 48.87               | 0.00                                     | 0.00                      | 0.16   | 0.00  | 0.00   | 0.16 | 2.48    | 3.15   | 472.50                           | 0.00   | 0.00   | 0.00   | 3.15 | 48.91   | 3.15          | 0.16          | 0.00           | 472.50          | 0.00   |
| 2020       | 2021                 | 10.43                | 5.38                  | 51.58               | 0.00                                     | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | 0.02    | 5.35   | 802.50                           | 0.03   | 0.00   | 0.00   | 5.38 | 51.56   | 5.35          | 0.03          | 0.00           | 802.50          | 0.00   |
| 2021       | 2022                 | 16.84                | 8.57                  | 50.89               | 0.00                                     | 0.00                      | 0.03   | 0.00  | 0.00   | 0.03 | 0.18    | 8.42   | 1285.00                          | 0.12   | 0.00   | 0.00   | 8.54 | 50.71   | 8.42          | 0.15          | 0.00           | 1285.00         | 0.00   |
| 2021       | 2022 (Till November) | 9.92                 | 4.65                  | 46.88               | 0.00                                     | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | 0.00    | 4.60   | 702.02                           | 0.06   | 0.00   | 0.00   | 4.66 | 46.98   | 4.60          | 0.06          | 0.00           | 702.02          | 0.00   |
| 2022       | 2023 (Till November) | 16.87                | 9.17                  | 54.36               | 0.00                                     | 0.00                      | 1.89   | 0.00  | 0.00   | 1.89 | 11.20   | 7.23   | 1055.00                          | 0.05   | 0.00   | 0.00   | 7.28 | 43.15   | 7.23          | 1.94          | 0.00           | 1055.00         | 0.00   |
| 01.04.2021 | 30.09.2021           | 6.75                 | 3.50                  | 51.85               | 0.00                                     | 0.00                      | 0.01   | 0.00  | 0.00   | 0.01 | 0.07    | 3.46   | 519.00                           | 0.04   | 0.00   | 0.00   | 3.50 | 51.78   | 3.46          | 0.04          | 0.00           | 519.00          | 0.00   |
| 01.10.2021 | 31.01.2022           | 6.48                 | 2.84                  | 43.83               | 0.00                                     | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | -0.02   | 2.78   | 417.00                           | 0.06   | 0.00   | 0.00   | 2.84 | 43.84   | 2.78          | 0.06          | 0.00           | 417.00          | 0.00   |
| 01.02.2022 | 28.02.2022           | 1.65                 | 0.98                  | 59.39               | 0.00                                     | 0.00                      | 0.01   | 0.00  | 0.00   | 0.01 | 0.55    | 0.96   | 144.00                           | 0.01   | 0.00   | 0.00   | 0.97 | 58.85   | 0.96          | 0.02          | 0.00           | 144.00          | 0.00   |
| 01.03.2022 | 31.08.2022           | 12.52                | 6.59                  | 52.64               | 0.00                                     | 0.00                      | 0.27   | 0.70  | 137.55   | 0.97 | 7.75    | 5.73   | 859.50                           | 0.04   | 0.00   | 0.00   | 5.77 | 46.08   | 5.73          | 0.31          | 0.70           | 859.50          | 137.55   |
| 01.09.2022 | Till date Dec' 22    | 6.48                 | 3.92                  | 60.49               | 0.00                                     | 0.00                      | 0.06   | 1.01  | 198.46   | 1.07 | 16.51   | 2.47   | 370.50                           | 0.31   | 0.00   | 0.00   | 2.78 | 42.90   | 2.47          | 0.37          | 1.01           | 370.50          | 198.46   |

Nakinagar

| Period     |                      | Pond Ash             |                       |                     |   |                           |  |   |  |       |       | Dry Fly Ash                                  |                                  |  |  |  |       | Total |               |               | Total          |                 |  |
|------------|----------------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|--|-------|-------|--|----------------------------------|--|--|--|-------|-------|---------------|---------------|----------------|-----------------|--|
|            |                      | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %     | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT   | %     | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |
| 2009       | 2010                 | 50.17                | 37.31                 | 74.36               | 0.00                                      | 0.00                      | 23.61  | 0.00  | 0.00   | 23.61 | 47.06 | 0.00   | 3.18                             | 13.70  | 0.00   | 0.00   | 13.70 | 27.31 | 0.00          | 37.31         | 0.00           | 3.18            | 0.00   |
| 2010       | 2011                 | 50.74                | 32.09                 | 63.25               | 0.00                                      | 0.00                      | 20.43  | 0.00  | 0.00   | 20.43 | 40.27 | 0.00   | 8.77                             | 11.66  | 0.00   | 0.00   | 11.66 | 22.98 | 0.00          | 32.09         | 0.00           | 8.77            | 0.00   |
| 2011       | 2012                 | 62.47                | 28.95                 | 46.34               | 0.00                                      | 0.00                      | 21.08  | 0.00  | 0.00   | 21.08 | 33.74 | 0.00   | 8.29                             | 7.87   | 0.00   | 0.00   | 7.87  | 12.60 | 0.00          | 28.95         | 0.00           | 8.29            | 0.00   |
| 2012       | 2013                 | 69.35                | 46.13                 | 66.51               | 0.00                                      | 0.00                      | 31.58  | 0.00  | 0.00   | 31.58 | 45.53 | 0.00   | 0.00                             | 14.55  | 0.00   | 0.00   | 14.55 | 20.98 | 0.00          | 46.13         | 0.00           | 0.00            | 0.00   |
| 2013       | 2014                 | 68.40                | 29.82                 | 43.60               | 0.00                                      | 0.00                      | 25.24  | 0.00  | 0.00   | 25.24 | 36.90 | 0.00   | 8.37                             | 4.58   | 0.00   | 0.00   | 4.58  | 6.70  | 0.00          | 29.82         | 0.00           | 8.37            | 0.00   |
| 2014       | 2015                 | 73.11                | 19.51                 | 26.68               | 0.00                                      | 0.00                      | 16.36  | 0.00  | 0.00   | 16.36 | 22.37 | 0.00   | 3.18                             | 3.15   | 0.00   | 0.00   | 3.15  | 4.31  | 0.00          | 19.51         | 0.00           | 3.18            | 0.00   |
| 2015       | 2016                 | 78.29                | 13.82                 | 17.66               | 0.00                                      | 0.00                      | 10.41  | 0.00  | 0.00   | 10.41 | 13.30 | 0.00   | 0.00                             | 3.41   | 0.00   | 0.00   | 3.41  | 4.36  | 0.00          | 13.82         | 0.00           | 0.00            | 0.00   |
| 2016       | 2017                 | 76.39                | 17.97                 | 23.52               | 0.00                                      | 0.00                      | 16.31  | 0.00  | 0.00   | 16.31 | 21.35 | 0.00   | 0.00                             | 1.66   | 0.00   | 0.00   | 1.66  | 2.17  | 0.00          | 17.97         | 0.00           | 0.00            | 0.00   |
| 2017       | 2018                 | 79.58                | 19.58                 | 24.60               | 0.00                                      | 0.00                      | 17.89  | 0.00  | 0.00   | 17.89 | 22.48 | 0.00   | 185.08                           | 1.69   | 0.00   | 0.00   | 1.69  | 2.12  | 0.00          | 19.58         | 0.00           | 185.08          | 0.00   |
| 2018       | 2019                 | 81.86                | 26.29                 | 32.12               | 0.00                                      | 0.00                      | 24.47  | 0.00  | 0.00   | 24.47 | 29.89 | 0.00   | 52.68                            | 1.82   | 0.00   | 0.00   | 1.82  | 2.22  | 0.00          | 26.29         | 0.00           | 52.68           | 0.00   |
| 2019       | 2020                 | 88.57                | 27.67                 | 31.24               | 0.00                                      | 0.00                      | 25.93  | 0.00  | 153.97   | 25.93 | 29.27 | 0.00   | 287.30                           | 1.74   | 0.00   | 0.00   | 1.74  | 1.96  | 0.00          | 27.67         | 0.00           | 287.30          | 153.97   |
| 2020       | 2021                 | 87.14                | 32.83                 | 37.68               | 0.00                                      | 0.00                      | 30.15  | 1.21  | 2442.27  | 31.36 | 35.99 | 0.00   | 0.00                             | 1.47   | 0.00   | 0.00   | 1.47  | 1.69  | 0.00          | 31.62         | 1.21           | 0.00            | 2442.27  |
| 2021       | 2022                 | 82.4                 | 43.70                 | 53.0                | 0.0                                       | 0.0                       | 34.3   | 5.1   | 6073.5   | 39.4  | 47.8  | 0.00   | 200.51                           | 4.35   | 0.00   | 0.00   | 4.35  | 5.28  | 0.00          | 38.62         | 5.08           | 200.51          | 6073.48  |
| 2021       | 2022 (Till November) | 57.64                | 20.5                  | 35.5                | 0.0                                       | 0.0                       | 15.2   | 2.2   | 2594.4   | 17.4  | 30.1  | 0.00   | 0.00                             | 3.13   | 0.00   | 0.00   | 3.13  | 5.43  | 0.00          | 18.31         | 2.17           | 0.00            | 2594.38  |
| 2022       | 2023 (Till November) | 53.02                | 10.95                 | 20.7                | 0.0                                       | 0.0                       | 2.8  | 6.3   | 4722.0   | 9.1   | 17.1  | 0.00   | 0.00                             | 1.88   | 0.00   | 0.00   | 1.88  | 3.55  | 0.00          | 4.66          | 6.29           | 0.00            | 4722.00  |
| 01.04.2021 | 30.09.2021           | 42.19                | 16.08                 | 38.11               | 0.00                                      | 0.00                      | 11.80  | 1.77  | 2116.15  | 13.57 | 32.16 | 0.00   | 0.00                             | 2.51   | 0.00   | 0.00   | 2.51  | 5.95  | 0.00          | 14.31         | 1.77           | 0.00            | 2116.15  |
| 01.10.2021 | 31.01.2022           | 27.93                | 22.57                 | 80.80               | 0.00                                      | 0.00                      | 19.60  | 1.70  | 2032.47  | 21.30 | 76.25 | 0.00   | 0.00                             | 1.27   | 0.00   | 0.00   | 1.27  | 4.55  | 0.00          | 20.87         | 1.70           | 0.00            | 2032.47  |
| 01.02.2022 | 28.02.2022           | 6.23                 | 2.96                  | 47.47               | 0.00                                      | 0.00                      | 1.69   | 1.01  | 758.22   | 2.70  | 43.29 | 0.00   | 0.00                             | 0.26   | 0.00   | 0.00   | 0.26  | 4.18  | 0.00          | 1.95          | 1.01           | 0.00            | 758.22   |
| 01.03.2022 | 31.08.2022           | 39.85                | 8.45                  | 21.22               | 0.00                                      | 0.00                      | 3.37   | 3.82  | 3134.64  | 7.19  | 18.06 | 0.00   | 0.00                             | 1.26   | 0.00   | 0.00   | 1.26  | 3.16  | 0.00          | 4.63          | 3.82           | 0.00            | 3134.64  |
| 01.09.2022 | Till date Dec' 22    | 19.21                | 4.59                  | 23.90               | 0.00                                      | 0.00                      | 0.60   | 3.06  | 2297.19  | 3.66  | 19.06 | 0.00   | 0.00                             | 0.93   | 0.00   | 0.00   | 0.93  | 4.84  | 0.00          | 1.53          | 3.06           | 0.00            | 2297.19  |

Vindhya chal

|            |                      | Pond Ash              |                     |   |                           |  |   |  |         |       |  | Dry Fly Ash                      |   |  |  |      | Total   |               |               | Total          |                 |  |
|------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|--|---------|-------|--|----------------------------------|---|--|--|------|---------|---------------|---------------|----------------|-----------------|--|
| Period     | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT     | %     | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation cost by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %       | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |
| 2009       | 2010                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00    | 0.00  | #DIV/0!                                      | 0.00                             | 0.00  | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2010       | 2011                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00    | 0.00  | #DIV/0!                                      | 0.00                             | 0.00  | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2011       | 2012                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00    | 0.00  | #DIV/0!                                      | 0.00                             | 0.00  | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2012       | 2013                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00    | 0.00  | #DIV/0!                                      | 0.00                             | 0.00  | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2013       | 2014                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00    | 0.00  | #DIV/0!                                      | 0.00                             | 0.00  | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2014       | 2015                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00    | 0.00  | #DIV/0!                                      | 0.00                             | 0.00  | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2015       | 2016                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00    | 0.00  | #DIV/0!                                      | 0.00                             | 0.00  | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2016       | 2017                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00    | 0.00  | #DIV/0!                                      | 0.00                             | 0.00  | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2017       | 2018                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00    | 0.00  | #DIV/0!                                      | 0.00                             | 0.00  | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2018       | 2019                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00    | 0.00  | #DIV/0!                                      | 0.00                             | 0.00  | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2019       | 2020                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00    | 0.00  | #DIV/0!                                      | 0.00                             | 0.00  | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2020       | 2021                 | 15.48                 | 0.54                | 3.49                                      | 0.00                      | 0.00   | 0.48  | 0.00   | 0.00    | 0.48  | 3.10   | 0.06                             | 0.00  | 0.00   | 0.00   | 0.06 | 0.39    | 0.06          | 0.48          | 0.00           | 0.00            | 0.00   |
| 2021       | 2022                 | 30.63                 | 17.77               | 58.02                                     | 0.00                      | 0.00   | 9.02  | 8.74   | 8044.13 | 17.76 | 57.98  | 0.01                             | 0.00  | 0.00   | 0.00   | 0.01 | 0.03    | 0.01          | 9.02          | 8.74           | 0.00            | 8044.13  |
| 2021       | 2022 (Till Nov)      | 19.27                 | 10.75               | 55.79                                     | 0.00                      | 0.00   | 6.22  | 4.52   | 4160.12 | 10.74 | 55.73  | 0.01                             | 0.00  | 0.00   | 0.00   | 0.01 | 0.05    | 0.01          | 6.22          | 4.52           | 0.00            | 4160.12  |
| 2022       | 2023 (Till Nov)      | 24.81                 | 9.36                | 37.73                                     | 0.00                      | 0.00   | 4.45  | 4.91   | 4200.00 | 9.36  | 37.73  | 0.00                             | 0.00  | 0.00   | 0.00   | 0.00 | 0.00    | 0.00          | 4.45          | 4.91           | 0.00            | 4200.00  |
| 01.04.2021 | 30.09.2021           | 12.75                 | 4.27                | 33.49                                     | 0.00                      | 0.00   | 0.00  | 4.26   | 3920.82 | 4.26  | 33.41  | 0.01                             | 0.00  | 0.00   | 0.00   | 0.01 | 0.08    | 0.01          | 0.00          | 4.26           | 0.00            | 3920.82  |
| 01.10.2021 | 31.01.2022           | 11.23                 | 11.07               | 98.60                                     | 0.00                      | 0.00   | 8.53  | 2.54   | 2337.77 | 11.07 | 98.57  | 0.00                             | 0.00  | 0.00   | 0.00   | 0.00 | 0.00    | 0.00          | 8.53          | 2.54           | 0.00            | 2337.77  |
| 01.02.2022 | 28.02.2022           | 2.60                  | 1.25                | 47.98                                     | 0.00                      | 0.00   | 0.49  | 0.75   | 690.29  | 1.24  | 47.74  | 0.00                             | 0.00  | 0.00   | 0.00   | 0.00 | 0.00    | 0.00          | 0.49          | 0.75           | 0.00            | 690.29   |
| 01.03.2022 | 31.03.2022           | 19.09                 | 3.91                | 20.50                                     | 0.00                      | 0.00   | 0.00  | 3.91   | 3615.89 | 3.91  | 20.49  | 0.00                             | 0.00  | 0.00   | 0.00   | 0.00 | 0.00    | 0.00          | 0.00          | 3.91           | 0.00            | 3615.89  |
| 01.09.2022 | Till date Dec' 22    | 9.78                  | 6.64                | 67.88                                     | 0.00                      | 0.00   | 4.45  | 2.19   | 1861.94 | 6.64  | 67.92  | 0.00                             | 0.00  | 0.00   | 0.00   | 0.00 | 0.00    | 0.00          | 4.45          | 2.19           | 0.00            | 1861.94  |

Darlipali

|            |                      | Pond Ash              |                     |   |                           |  |   |                     |      |         |  | Dry Fly Ash                      |  |  |  |      |         | Total         |               |                | Total           |  |
|------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|---------------------|------|---------|--|----------------------------------|--|--|--|------|---------|---------------|---------------|----------------|-----------------|--|
| Period     | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure (Lakhs) | LMT  | %       | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %       | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |
| 2009       | 2010                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00                | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2010       | 2011                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00                | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2011       | 2012                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00                | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2012       | 2013                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00                | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2013       | 2014                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00                | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2014       | 2015                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00                | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2015       | 2016                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00                | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2016       | 2017                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00                | 0.00 | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2017       | 2018                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00                | 0.00 | #DIV/0! | 0.1  | 59.47                            | 0.01   | 0.00   | 0.00   | 0.11 | #DIV/0! | 0.10          | 0.01          | 0.00           | 59.47           | 0.00   |
| 2018       | 2019                 | 3.8                   | 1.3                 | 33.0                                      | 0.0                       | 0.0  | 0.0   | 0.0                 | 0.0  | 0.0     | 1.11   | 744.78                           | 0.33   | 0.00   | 0.00   | 1.44 | 37.70   | 1.11          | 0.33          | 0.00           | 744.78          | 0.00   |
| 2019       | 2020                 | 7.0                   | 3.2                 | 45.4                                      | 0.0                       | 0.0  | 0.2   | 0.0                 | 0.0  | 2.4     | 2.19   | 1673.47                          | 0.47   | 0.00   | 0.00   | 2.66 | 38.01   | 2.19          | 0.64          | 0.00           | 1673.47         | 0.00   |
| 2020       | 2021                 | 5.2                   | 3.3                 | 62.8                                      | 0.0                       | 0.0  | 0.0   | 0.0                 | 0.0  | 0.0     | 2.93   | 1495.01                          | 0.36   | 0.00   | 0.00   | 3.29 | 62.79   | 2.93          | 0.36          | 0.00           | 1495.01         | 0.00   |
| 2021       | 2022                 | 7.6                   | 4.4                 | 58.0                                      | 0.0                       | 0.0  | 0.0   | 0.0                 | 0.0  | 0.0     | 3.76   | 1884.28                          | 0.63   | 0.00   | 0.00   | 4.39 | 57.99   | 3.76          | 0.63          | 0.00           | 1884.28         | 0.00   |
| 2021       | 2022 (Till November) | 5.0                   | 2.9                 | 58.6                                      | 0.0                       | 0.0  | 0.0   | 0.0                 | 0.0  | 0.0     | 2.51   | 1257.86                          | 0.40   | 0.00   | 0.00   | 2.91 | 58.55   | 2.51          | 0.40          | 0.00           | 1257.86         | 0.00   |
| 2022       | 2023 (Till November) | 6.8                   | 3.8                 | 55.1                                      | 0.0                       | 0.0  | 0.0   | 0.0                 | 0.0  | 0.0     | 3.08   | 1741.00                          | 0.67   | 0.00   | 0.00   | 3.75 | 55.07   | 3.08          | 0.67          | 0.00           | 1741.00         | 0.00   |
| 01.04.2021 | 30.09.2021           | 3.7                   | 2.2                 | 59.2                                      | 0.0                       | 0.0  | 0.0   | 0.0                 | 0.0  | 0.0     | 1.92   | 1501.16                          | 0.29   | 0.00   | 0.00   | 2.21 | 59.25   | 1.92          | 0.29          | 0.00           | 1501.16         | 0.00   |
| 01.10.2021 | 31.01.2022           | 2.36                  | 1.26                | 53.63                                     | 0.00                      | 0.00   | 0.00  | 0.00                | 0.00 | 0.00    | 1.04   | 549                              | 0.22   | 0.00   | 0.00   | 1.26 | 53.49   | 1.04          | 0.22          | 0.00           | 549.00          | 0.00   |
| 01.02.2022 | 28.02.2022           | 0.66                  | 0.38                | 57.60                                     | 0.00                      | 0.00   | 0.00  | 0.00                | 0.00 | 0.00    | 0.32   | 160                              | 0.06   | 0.00   | 0.00   | 0.38 | 57.35   | 0.32          | 0.06          | 0.00           | 160.00          | 0.00   |
| 01.03.2022 | 31.03.2022           | 5.36                  | 2.88                | 53.78                                     | 0.00                      | 0.00   | 0.00  | 0.00                | 0.00 | 0.00    | 2.42   | 1179                             | 0.46   | 0.00   | 0.00   | 2.88 | 53.78   | 2.42          | 0.46          | 0.00           | 1179.00         | 0.00   |
| 01.09.2022 | Till date Dec' 22    | 2.28                  | 1.41                | 62.00                                     | 0.00                      | 0.00   | 0.00  | 0.00                | 0.00 | 0.00    | 1.14   | 562                              | 0.28   | 0.00   | 0.00   | 1.42 | 62.26   | 1.14          | 0.28          | 0.00           | 562.00          | 0.00   |

Bongaigaon

|            |                      | Pond Ash              |                     |   |                           |  |   |  |      |      |  | Dry Fly Ash                      |  |  |  |      |       | Total         |               | Total          |                 |  |      |
|------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|--|------|------|--|----------------------------------|--|--|--|------|-------|---------------|---------------|----------------|-----------------|--|------|
| Period     | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %    | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %     | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |      |
| 2009       | 2010                 |                       |                     |   |                           |  |   |  |      |      |  |                                  |  |  |  |      |       |               |               |                |                 |  |      |
| 2010       | 2011                 |                       |                     |   |                           |  |   |  |      |      |  |                                  |  |  |  |      |       |               |               |                |                 |  |      |
| 2011       | 2012                 |                       |                     |   |                           |  |   |  |      |      |  |                                  |  |  |  |      |       |               |               |                |                 |  |      |
| 2012       | 2013                 |                       |                     |   |                           |  |   |  |      |      |  |                                  |  |  |  |      |       |               |               |                |                 |  |      |
| 2013       | 2014                 |                       |                     |   |                           |  |   |  |      |      |  |                                  |  |  |  |      |       |               |               |                |                 |  |      |
| 2014       | 2015                 |                       |                     |   |                           |  |   |  |      |      |  |                                  |  |  |  |      |       |               |               |                |                 |  |      |
| 2015       | 2016                 |                       |                     |   |                           |  |   |  |      |      |  |                                  |  |  |  |      |       |               |               |                |                 |  |      |
| 2016       | 2017                 |                       |                     |   |                           |  |   |  |      |      |  |                                  |  |  |  |      |       |               |               |                |                 |  |      |
| 2017       | 2018                 | 7.14                  | 3.58                | 50.1                                      | 0.0                       | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 3.46                             | 448.11   | 0.11   | 0.00   | 0.00 | 3.57  | 50.00         | 3.46          | 0.11           | 0.00            | 448.11   | 0.00 |
| 2018       | 2019                 | 13.51                 | 8.86                | 65.6                                      | 0.0                       | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 8.82                             | 1337.27  | 0.04   | 0.00   | 0.00 | 8.86  | 65.58         | 8.82          | 0.04           | 0.00            | 1337.27  | 0.00 |
| 2019       | 2020                 | 8.93                  | 8.97                | 100.4                                     | 0.0                       | 0.0  | 0.3   | 0.0  | 0.0  | 0.3  | 2.8  | 7.37                             | 1724.83  | 1.34   | 0.00   | 0.00 | 8.71  | 97.53         | 7.37          | 1.59           | 0.00            | 1724.83  | 0.00 |
| 2020       | 2021                 | 9.82                  | 4.48                | 45.6                                      | 0.0                       | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 4.34                             | 1182.28  | 0.14   | 0.00   | 0.00 | 4.48  | 45.62         | 4.34          | 0.14           | 0.00            | 1182.28  | 0.00 |
| 2021       | 2022                 | 13.25                 | 7.10                | 53.6                                      | 0.0                       | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 6.86                             | 1950.70  | 0.24   | 0.00   | 0.00 | 7.10  | 53.58         | 6.86          | 0.24           | 0.00            | 1950.70  | 0.00 |
| 2021       | 2022 Till November   | 5.93                  | 3.73                | 62.9                                      | 0.0                       | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 3.67                             | 1043.60  | 0.05   | 0.00   | 0.00 | 3.72  | 62.73         | 3.67          | 0.05           | 0.00            | 1043.60  | 0.00 |
| 2022       | 2023 Till November   | 15.53                 | 11.62               | 74.8                                      | 0.0                       | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 9.91                             | 1147.75  | 1.71   | 0.00   | 0.00 | 11.62 | 74.82         | 9.91          | 1.71           | 0.00            | 1147.75  | 0.00 |
| 01.04.2021 | 30.09.2021           | 4.16                  | 2.96                | 71.06                                     | 0.0                       | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 2.90                             | 824.615  | 0.05   | 0.00   | 0.00 | 2.95  | 70.91         | 2.90          | 0.05           | 0.00            | 824.62   | 0.00 |
| 01.10.2021 | 31.01.2022           | 4.55                  | 2.13                | 46.87                                     | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | 0.00 | 0.00   | 1.97                             | 560.17   | 0.16   | 0.00   | 0.00 | 2.13  | 46.78         | 1.97          | 0.16           | 0.00            | 560.17   | 0.00 |
| 01.02.2022 | 28.02.2022           | 1.98                  | 0.83                | 42.01                                     | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | 0.00 | 0.00   | 0.72                             | 204.73   | 0.12   | 0.00   | 0.00 | 0.84  | 42.34         | 0.72          | 0.12           | 0.00            | 204.73   | 0.00 |
| 01.03.2022 | 31.08.2022           | 11.69                 | 7.91                | 67.66                                     | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | 0.00 | 0.00   | 6.86                             | 186.11   | 1.06   | 0.00   | 0.00 | 7.92  | 67.76         | 6.86          | 1.06           | 0.00            | 186.11   | 0.00 |
| 01.09.2022 | Till date Dec' 22    | 6.39                  | 4.88                | 76.39                                     | 0.00                      | 0.00   | 0.00  | 0.00   | 0.00 | 0.00 | 0.00   | 3.53                             | 961.64   | 1.35   | 0.00   | 0.00 | 4.88  | 76.32         | 3.53          | 1.35           | 0.00            | 961.64   | 0.00 |

Ash Production started from 2017-18

Kudgi

|            |                    | Pond Ash             |                       |                     |   |                           |  |   |                     |      |       | Dry Fly Ash                                  |                                  |  |  |  |      | Total |               |               | Total          |                 |  |
|------------|--------------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|---------------------|------|-------|--|----------------------------------|--|--|--|------|-------|---------------|---------------|----------------|-----------------|--|
| Period     |                    | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter / Agency. | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure (Lakhs) | LMT  | %     | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %     | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |
| 2009       | 2010               |                      |                       |                     |   |                           |  |   |                     |      |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2010       | 2011               |                      |                       |                     |   |                           |  |   |                     |      |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2011       | 2012               |                      |                       |                     |   |                           |  |   |                     |      |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2012       | 2013               |                      |                       |                     |   |                           |  |   |                     |      |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2013       | 2014               |                      |                       |                     |   |                           |  |   |                     |      |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2014       | 2015               |                      |                       |                     |   |                           |  |   |                     |      |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2015       | 2016               |                      |                       |                     |   |                           |  |   |                     |      |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2016       | 2017               |                      |                       |                     |   |                           |  |   |                     |      |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2017       | 2018               |                      |                       |                     |   |                           |  |   |                     |      |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2018       | 2019               |                      |                       |                     |   |                           |  |   |                     |      |       |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2019       | 2020               | 1.27                 | 0.09                  | 7.09                | 0.00                                      | 0.00                      | 0.03   | 0.00  | 0.00                | 0.03 | 2.36  | 0.04   | 10.06                            | 0.02   | 0.00   | 0.00   | 0.06 | 4.72  | 0.04          | 0.05          | 0.00           | 10.06           | 0.00   |
| 2020       | 2021               | 8.13                 | 4.15                  | 51.05               | 0.00                                      | 0.00                      | 0.20   | 0.00  | 0.00                | 0.20 | 2.46  | 3.80   | 491.89                           | 0.15   | 0.00   | 0.00   | 3.95 | 48.59 | 3.80          | 0.35          | 0.00           | 491.89          | 0.00   |
| 2021       | 2022               | 14.08                | 8.04                  | 57.10               | 0.00                                      | 0.00                      | 1.50   | 0.21  | 38.60               | 0.21 | 1.49  | 6.14   | 505.74                           | 0.20   | 0.00   | 0.00   | 6.34 | 45.03 | 6.14          | 1.70          | 0.21           | 505.74          | 38.60  |
| 2021       | 2022 Till November | 7.83                 | 3.66                  | 46.74               | 0.00                                      | 0.00                      | 0.23   | 0.00  | 0.00                | 0.23 | 2.94  | 3.30   | 271.81                           | 0.12   | 0.00   | 0.00   | 3.42 | 43.68 | 3.30          | 0.35          | 0.00           | 271.81          | 0.00   |
| 2022       | 2023 Till November | 8.36                 | 6.51                  | 77.87               | 0.00                                      | 0.00                      | 0.74   | 2.08  | 781.00              | 2.82 | 33.73 | 3.67   | 253.86                           | 0.02   | 0.00   | 0.00   | 3.69 | 44.14 | 3.67          | 0.76          | 2.08           | 253.86          | 781.00   |
| 01.04.2021 | 30.09.2021         | 5.22                 | 2.53                  | 48.47               | 0.00                                      | 0.00                      | 0.16   | 0.00  | 0.00                | 0.16 | 3.07  | 2.27   | 186.95                           | 0.10   | 0.00   | 0.00   | 2.37 | 45.40 | 2.27          | 0.26          | 0.00           | 186.95          | 0.00   |
| 01.10.2021 | 31.01.2022         | 5.65                 | 3.71                  | 65.69               | 0.08                                      | 0.08                      | 1.11   | 0.00  | 0.00                | 1.19 | 20.99 | 2.46   | 142.30                           | 0.06   | 0.00   | 0.00   | 2.52 | 44.64 | 2.54          | 1.17          | 0.00           | 142.38          | 0.00   |
| 01.02.2022 | 28.02.2022         | 1.51                 | 0.83                  | 54.90               | 0.00                                      | 0.00                      | 0.07   | 0.07  | 38.60               | 0.07 | 4.63  | 0.67   | 31.79                            | 0.02   | 0.00   | 0.00   | 0.69 | 45.70 | 0.67          | 0.09          | 0.07           | 31.79           | 38.60  |
| 01.03.2022 | 31.08.2022         | 7.71                 | 4.71                  | 67.50               | 0.00                                      | 0.00                      | 0.54   | 0.96  | 329.48              | 1.55 | 20.04 | 3.19   | 186.11                           | 0.03   | 0.00   | 0.00   | 3.22 | 41.76 | 3.19          | 0.57          | 0.96           | 186.11          | 329.48   |
| 01.09.2022 | Till date Dec' 22  | 2.35                 | 2.77                  | 118.14              | 0.12                                      | 0.12                      | 0.15   | 1.27  | 476.25              | 1.54 | 65.60 | 1.22   | 67.75                            | 0.00   | 0.00   | 0.00   | 1.22 | 51.97 | 1.34          | 0.15          | 1.27           | 67.87           | 476.25   |

Ash Production started from 2019-20

*Khargone*

|            |                   | Pond Ash             |                       |                     |                                     |                                  |   |   |                     |      |        | Dry Fly Ash                                  |                                  |  |  |  |      | Total |               |               | Total          |                 |  |
|------------|-------------------|----------------------|-----------------------|---------------------|-------------------------------------|----------------------------------|---|---|---------------------|------|--------|--|----------------------------------|--|--|--|------|-------|---------------|---------------|----------------|-----------------|--|
| Period     |                   | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I | Revenue Through Ash Sale (Lakhs) | Qty Tied up through Free Issue with Transportation cost by Transporter/ Agency. Step-II | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure (Lakhs) | LMT  | %      | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %     | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |
| 2009       | 2010              |                      |                       |                     |                                     |                                  |   |   |                     |      |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2010       | 2011              |                      |                       |                     |                                     |                                  |   |   |                     |      |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2011       | 2012              |                      |                       |                     |                                     |                                  |   |   |                     |      |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2012       | 2013              |                      |                       |                     |                                     |                                  |   |   |                     |      |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2013       | 2014              |                      |                       |                     |                                     |                                  |   |   |                     |      |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2014       | 2015              |                      |                       |                     |                                     |                                  |   |   |                     |      |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2015       | 2016              |                      |                       |                     |                                     |                                  |   |   |                     |      |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2016       | 2017              |                      |                       |                     |                                     |                                  |   |   |                     |      |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2017       | 2018              |                      |                       |                     |                                     |                                  |   |   |                     |      |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2018       | 2019              |                      |                       |                     |                                     |                                  |   |   |                     |      |        |  |                                  |  |  |  |      |       |               |               |                |                 |  |
| 2019       | 2020              | 1.74                 | 3.29                  | 193.52              | 0.00                                | 0.00                             | 3.25  | 0.00  | 0.00                | 3.25 | 191.17 | 0.00   | 0.00                             | 0.03   | 0.00   | 0.00   | 0.03 | 1.72  | 0.00          | 3.28          | 0.00           | 0.00            | 0.00   |
| 2020       | 2021              | 9.44                 | 0.78                  | 8.26                | 0.00                                | 0.00                             | 0.00  | 0.00  | 0.00                | 0.00 | 0.00   | 0.67   | 2.07                             | 0.11   | 0.00   | 0.00   | 0.78 | 8.26  | 0.67          | 0.11          | 0.00           | 2.07            | 0.00   |
| 2021       | 2022              | 16.85                | 6.35                  | 37.66               | 0.00                                | 0.00                             | 5.21  | 0.12  | 136.26              | 0.00 | 0.00   | 1.09   | 6.00                             | 0.05   | 0.00   | 0.00   | 1.14 | 6.77  | 1.09          | 5.26          | 0.12           | 6.00            | 136.26   |
| 01.04.2021 | 30.09.2021        | 8.38                 | 0.34                  | 4.06                | 0.00                                | 0.00                             | 0.00  | 0.00  | 0.00                | 0.00 | 0.00   | 0.32   | 1.62                             | 0.02   | 0.00   | 0.00   | 0.34 | 4.06  | 0.32          | 0.02          | 0.00           | 1.76            | 0.00   |
| 01.10.2021 | 31.01.2022        | 4.87                 | 4.89                  | 100.42              | 0.00                                | 0.00                             | 0.00  | 0.00  | 0.00                | 4.33 | 88.84  | 0.55   | 2.74                             | 0.02   | 0.00   | 0.00   | 0.57 | 11.63 | 0.55          | 0.02          | 0.00           | 2.76            | 0.00   |
| 01.02.2022 | 28.02.2022        | 1.71                 | 0.53                  | 31.11               | 0.00                                | 0.00                             | 0.00  | 0.00  | 1.59                | 0.43 | 25.16  | 0.09   | 0.45                             | 0.01   | 0.00   | 0.00   | 0.10 | 5.85  | 0.09          | 0.01          | 0.00           | 0.45            | 1.59   |
| 01.03.2022 | 31.08.2022        | 9.91                 | 4.00                  | 40.40               | 0.00                                | 0.00                             | 0.00  | 3.06  | 2430.98             | 3.34 | 33.72  | 0.55   | 2.76                             | 0.10   | 0.00   | 0.00   | 0.65 | 6.58  | 0.55          | 0.10          | 3.06           | 2.76            | 2430.98  |
| 01.09.2022 | Till date Dec' 22 | 3.52                 | 2.72                  | 77.27               | 0.00                                | 0.00                             | 0.00  | 2.65  | 3251.94             | 2.65 | 75.27  | 0.06   | 0.31                             | 0.01   | 0.00   | 0.00   | 0.07 | 2.05  | 0.06          | 0.01          | 2.65           | 0.31            | 3251.94  |

Ash Production started from 2019-20

Gadankwara

|            |                      | Pond Ash              |                     |   |                           |  |   |                     |      |       |  | Dry Fly Ash                      |  |  |  |      |       | Total         |               |                | Total           |  |         |      |
|------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|---------------------|------|-------|--|----------------------------------|--|--|--|------|-------|---------------|---------------|----------------|-----------------|--|---------|------|
| Period     | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure (Lakhs) | LMT  | %     | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %     | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |         |      |
| 2009       | 2010                 | 17.39                 | 15.55               | 89.41                                     | 0.00                      | 0.00   | 4.59  | 0.00                | 0.00 | 4.59  | 26.40  | 10.93                            | 1220.66  | 0.03   | 0.00   | 0.00 | 10.96 | 63.03         | 10.93         | 4.62           | 0.00            | 15.55  | 1220.66 | 0.00 |
| 2010       | 2011                 | 25.50                 | 21.01               | 82.40                                     | 0.00                      | 0.00   | 6.33  | 0.00                | 0.00 | 6.33  | 24.82  | 14.67                            | 4001.70  | 0.01   | 0.00   | 0.00 | 14.68 | 57.57         | 14.67         | 6.34           | 0.00            | 21.01  | 4001.70 | 0.00 |
| 2011       | 2012                 | 30.10                 | 22.47               | 74.67                                     | 0.00                      | 0.00   | 5.87  | 0.00                | 0.00 | 5.87  | 19.50  | 16.58                            | 5285.88  | 0.02   | 0.00   | 0.00 | 16.60 | 55.16         | 16.58         | 5.89           | 0.00            | 22.47  | 5285.88 | 0.00 |
| 2012       | 2013                 | 27.44                 | 23.80               | 86.75                                     | 0.00                      | 0.00   | 4.21  | 0.00                | 0.00 | 4.21  | 15.34  | 19.56                            | 6812.70  | 0.03   | 0.00   | 0.00 | 19.59 | 71.40         | 19.56         | 4.24           | 0.00            | 23.80  | 6812.70 | 0.00 |
| 2013       | 2014                 | 26.80                 | 31.23               | 116.52                                    | 0.00                      | 0.00   | 9.50  | 0.00                | 0.00 | 9.50  | 35.44  | 18.33                            | 7888.96  | 3.40   | 0.00   | 0.00 | 21.73 | 81.07         | 18.33         | 12.90          | 0.00            | 31.23  | 7888.96 | 0.00 |
| 2014       | 2015                 | 26.07                 | 27.04               | 103.71                                    | 0.00                      | 0.00   | 7.46  | 0.00                | 0.00 | 7.46  | 28.61  | 15.33                            | 6527.30  | 4.26   | 0.00   | 0.00 | 19.59 | 75.13         | 15.33         | 11.72          | 0.00            | 27.05  | 6527.30 | 0.00 |
| 2015       | 2016                 | 20.75                 | 28.27               | 136.29                                    | 0.00                      | 0.00   | 11.33   | 0.00                | 0.00 | 11.33 | 54.62  | 12.49                            | 5664.07  | 4.45   | 0.00   | 0.00 | 16.94 | 81.66         | 12.49         | 15.78          | 0.00            | 28.27  | 5664.07 | 0.00 |
| 2016       | 2017                 | 18.33                 | 37.28               | 203.38                                    | 0.00                      | 0.00   | 23.32   | 0.00                | 0.00 | 23.32 | 127.22                                       | 10.83                            | 4788.50  | 3.13   | 0.00   | 0.00 | 13.96 | 76.16         | 10.83         | 26.45          | 0.00            | 37.28  | 4788.50 | 0.00 |
| 2017       | 2018                 | 21.54                 | 23.45               | 108.87                                    | 0.00                      | 0.00   | 6.29  | 0.00                | 0.00 | 6.29  | 29.20  | 12.13                            | 5429.19  | 5.04   | 0.00   | 0.00 | 17.17 | 79.71         | 12.13         | 11.33          | 0.00            | 23.46  | 5429.19 | 0.00 |
| 2018       | 2019                 | 22.35                 | 22.36               | 100.04                                    | 0.00                      | 0.00   | 5.16  | 0.00                | 0.00 | 5.16  | 23.09  | 13.40                            | 6263.05  | 3.80   | 0.00   | 0.00 | 17.20 | 76.96         | 13.40         | 8.96           | 0.00            | 22.36  | 6263.05 | 0.00 |
| 2019       | 2020                 | 10.07                 | 10.15               | 101.48                                    | 0.00                      | 0.00   | 2.42  | 0.00                | 0.00 | 2.42  | 15.92  | 6.07                             | 4704.51  | 1.65   | 0.00   | 0.00 | 7.72  | 76.66         | 6.07          | 4.07           | 0.00            | 10.14  | 4704.51 | 0.00 |
| 2020       | 2021                 | 9.41                  | 9.40                | 99.89                                     | 0.00                      | 0.00   | 4.16  | 0.00                | 0.00 | 4.16  | 44.21  | 3.40                             | 3003.44  | 1.84   | 0.00   | 0.00 | 5.24  | 55.69         | 3.40          | 6.00           | 0.00            | 9.40   | 3003.44 | 0.00 |
| 2021       | 2022                 | 12.85                 | 12.87               | 100.16                                    | 0.00                      | 0.00   | 0.55  | 0.00                | 0.00 | 0.55  | 4.28   | 9.69                             | 4850.24  | 2.63   | 0.00   | 0.00 | 12.32 | 95.88         | 9.69          | 3.18           | 0.00            | 12.87  | 4850.24 | 0.00 |
| 2021       | 2022 (Till November) | 8.69                  | 8.46                | 97.35                                     | 0.00                      | 0.00   | 0.25  | 0.00                | 0.00 | 0.25  | 2.88   | 6.21                             | 3108.36  | 2.01   | 0.00   | 0.00 | 8.22  | 94.59         | 6.21          | 2.26           | 0.00            | 8.47   | 3108.36 | 0.00 |
| 2022       | 2023 (Till November) | 15.08                 | 14.21               | 94.23                                     | 0.00                      | 0.00   | 0.58  | 0.00                | 0.00 |       |  | 11.31                            | 6051.53  | 2.32   | 0.00   | 0.00 | 13.63 | 90.38         | 11.31         | 2.90           | 0.00            | 14.21  | 6051.53 | 0.00 |
| 01.04.2021 | 30.09.2021           | 7.08                  | 7.03                | 99.29                                     | 0.00                      | 0.00   | 0.25  | 0.00                | 0.00 | 0.25  | 3.53   | 4.77                             | 2387.58  | 2.01   | 0.00   | 0.00 | 6.78  | 95.76         | 4.77          | 2.26           | 0.00            | 7.03   | 2387.58 | 0.00 |
| 01.10.2021 | 31.01.2022           | 3.30                  | 3.26                | 98.85                                     | 0.00                      | 41.42  | 0.12  | 0.00                | 0.00 | 0.12  | 3.63   | 2.95                             | 1476.59  | 0.19   | 0.00   | 0.00 | 3.14  | 95.08         | 2.95          | 0.31           | 0.00            | 3.26   | 1518.01 | 0.00 |
| 01.02.2022 | 28.02.2022           | 1.48                  | 1.49                | 101.05                                    | 0.00                      | 39.95  | 0.11  | 0.00                | 0.00 | 0.11  | 27.76  | 0.59                             | 295.32   | 0.80   | 0.00   | 0.00 | 1.39  | 94.12         | 0.59          | 0.91           | 0.00            | 1.50   | 335.27  | 0.00 |
| 01.03.2022 | 31.08.2022           | 11.28                 | 10.03               | 88.89                                     | 0.00                      | 180.45   | 0.55  | 0.00                | 0.00 | 0.55  | 4.87   | 7.76                             | 3884.19  | 1.72   | 0.00   | 0.00 | 9.48  | 84.03         | 7.76          | 2.27           | 0.00            | 10.03  | 4064.64 | 0.00 |
| 01.09.2022 | Till date Dec' 22    | 4.80                  | 5.27                | 109.84                                    | 0.00                      | 80.75  | 0.10  | 0.00                | 0.00 | 0.10  | 2.08   | 4.33                             | 2167.34  | 0.84   | 0.00   | 0.00 | 5.17  | 107.71        | 4.33          | 0.94           | 0.00            | 5.27   | 2248.09 | 0.00 |

Dadri

| Period     |                      | Pond Ash             |                       |                     |   |                           |  |   |                     |       |         | Dry Fly Ash                                  |                                  |  |  |  |      |         | Total         |               |                | Total           |  |
|------------|----------------------|----------------------|-----------------------|---------------------|---|---------------------------|--|---|---------------------|-------|---------|--|----------------------------------|--|--|--|------|---------|---------------|---------------|----------------|-----------------|--|
|            |                      | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Qty Tied Up Through Auction. Step-I (LMT) | Revenue Generated (Lakhs) | Qty Lifted up through Free Issue with Transportation cost by Transporter/ Agency. Step-II (Pond Ash) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure (Lakhs) | LMT   | %       | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT  | %       | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |
| 2009       | 2010                 | 0.00                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00                | 0.00  | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2010       | 2011                 | 0.00                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00                | 0.00  | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2011       | 2012                 | 0.00                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00                | 0.00  | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2012       | 2013                 | 0.00                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00                | 0.00  | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2013       | 2014                 | 0.00                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00                | 0.00  | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2014       | 2015                 | 0.00                 | 0.00                  | 0.00                | 0.00                                      | 0.00                      | 0.00   | 0.00  | 0.00                | 0.00  | #DIV/0! | 0.00   | 0.00                             | 0.00   | 0.00   | 0.00   | 0.00 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2015       | 2016                 | 9.73                 | 0.62                  | 6.42                | 0.00                                      | 0.00                      | 0.58   | 0.00  | 0.00                | 0.58  | 5.96    | 0.00   | 0.00                             | 0.04   | 0.00   | 0.00   | 0.04 | 0.41    | 0.00          | 0.62          | 0.00           | 0.00            | 0.00   |
| 2016       | 2017                 | 20.87                | 0.98                  | 4.70                | 0.00                                      | 0.00                      | 0.30   | 0.00  | 0.00                | 0.30  | 1.44    | 0.38   | 0.00                             | 0.30   | 0.00   | 0.00   | 0.68 | 3.26    | 0.38          | 0.60          | 0.00           | 0.00            | 0.00   |
| 2017       | 2018                 | 24.84                | 9.76                  | 39.29               | 0.00                                      | 0.00                      | 7.00   | 0.00  | 0.00                | 7.00  | 28.18   | 1.29   | 7.74                             | 1.46   | 0.00   | 0.00   | 2.75 | 11.07   | 1.29          | 8.46          | 0.00           | 7.74            | 0.00   |
| 2018       | 2019                 | 22.97                | 11.50                 | 50.07               | 0.00                                      | 0.00                      | 7.43   | 0.00  | 0.00                | 7.43  | 32.35   | 2.66   | 272.66                           | 1.41   | 0.00   | 0.00   | 4.07 | 17.72   | 2.66          | 8.84          | 0.00           | 272.66          | 0.00   |
| 2019       | 2020                 | 20.64                | 14.04                 | 67.08               | 0.00                                      | 0.00                      | 8.69   | 0.00  | 0.00                | 8.69  | 34.21   | 3.18   | 297.52                           | 2.17   | 0.00   | 0.00   | 5.35 | 25.93   | 3.18          | 10.86         | 0.00           | 297.52          | 0.00   |
| 2020       | 2021                 | 20.40                | 22.04                 | 108.04              | 0.00                                      | 0.00                      | 15.83  | 0.00  | 0.00                | 15.83 | 77.60   | 3.69   | 344.17                           | 2.52   | 0.00   | 0.00   | 6.21 | 30.44   | 3.69          | 18.35         | 0.00           | 344.17          | 0.00   |
| 2021       | 2022                 | 21.56                | 34.10                 | 158.16              | 0.00                                      | 0.00                      | 7.93   | 20.94   | 3183.29             | 28.87 | 133.91  | 3.34   | 421.43                           | 1.89   | 0.00   | 0.00   | 5.23 | 24.26   | 3.34          | 9.82          | 20.94          | 421.43          | 3183.29  |
| 2021       | 2022 (Till November) | 12.10                | 12.22                 | 100.99              | 0.00                                      | 0.00                      | 2.51   | 5.88  | 15201.96            | 8.39  | 69.34   | 1.99   | 251.09                           | 1.84   | 0.00   | 0.00   | 3.83 | 31.65   | 1.99          | 4.35          | 5.88           | 251.09          | 15201.96   |
| 2022       | 2023 (Till November) | 22.14                | 31.26                 | 141.19              | 0.00                                      | 0.00                      | 1.23   | 24.49   | 4084.00             | 25.72 | 116.17  | 2.82   | 476.56                           | 2.72   | 0.00   | 0.00   | 5.54 | 25.02   | 2.82          | 3.95          | 24.49          | 476.56          | 4084.00  |
| 01.04.2021 | 30.09.2021           | 10.20                | 11.44                 | 112.16              | 0.00                                      | 0.00                      | 2.47   | 5.59  | 1058.52             | 8.06  | 79.02   | 1.74   | 251.99                           | 1.64   | 0.00   | 0.00   | 3.38 | 33.14   | 1.74          | 4.11          | 5.59           | 251.99          | 1058.52  |
| 01.10.2021 | 31.01.2022           | 6.75                 | 13.12                 | 194.05              | 0.00                                      | 0.00                      | 4.35   | 7.43  | 1406.94             | 11.78 | 396.60  | 0.78   | 97.60                            | 0.56   | 0.00   | 0.00   | 1.34 | 19.85   | 0.78          | 4.91          | 7.43           | 97.60           | 1406.94  |
| 01.02.2022 | 28.02.2022           | 1.95                 | 4.47                  | 228.71              | 0.00                                      | 0.00                      | 0.06   | 3.79  | 717.67              | 3.85  | 197.03  | 0.40   | 45.38                            | 0.22   | 0.00   | 0.00   | 0.62 | 31.73   | 0.40          | 0.28          | 3.79           | 45.38           | 717.67   |
| 01.03.2022 | 31.08.2022           | 17.05                | 27.35                 | 160.37              | 0.00                                      | 0.00                      | 0.60   | 21.44   | 4059.88             | 22.04 | 129.24  | 2.13   | 278.71                           | 3.18   | 0.00   | 0.00   | 5.31 | 31.14   | 2.13          | 3.78          | 21.44          | 278.71          | 4059.88  |
| 01.09.2022 | Till date Dec '22    | 7.74                 | 9.01                  | 116.34              | 0.00                                      | 0.00                      | 0.69   | 7.18  | 1197.34             | 7.87  | 101.64  | 1.12   | 197.85                           | 0.02   | 0.00   | 0.00   | 1.14 | 14.72   | 1.12          | 0.71          | 7.18           | 197.85          | 1197.34  |

*Barh*

| Period of Auction |                      | Pond Ash             |                       |                     |  |                                  |  |   |  |      |         | Dry Fly Ash                                  |                                  |  |  |  |     | Total   |               |               | Total          |                 |  |
|-------------------|----------------------|----------------------|-----------------------|---------------------|--|----------------------------------|--|---|--|------|---------|--|----------------------------------|--|--|--|-----|---------|---------------|---------------|----------------|-----------------|--|
|                   |                      | Ash Generation (LMT) | Ash Utilization (LMT) | Ash Utilization (%) | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Pond Ash (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Qty Tied up through Free Issue with Transportation cost by NTPC. Step-III | Expenditure on Transportation cost bt NTPC (Lakhs) | LMT  | %       | Ash Utilization Through Step-I Auction (LMT) | Revenue Through Ash Sale (Lakhs) | Ash Utilization Through Step-II - Free Issue with Transportation by agency (LMT) | Ash Utilization Through Step-III Free Issue with Transportation cost by NTPC | Expenditure on Transportation cost by NTPC (Lakhs) | LMT | %       | Step -I (LMT) | Step-II (LMT) | Step-III (LMT) | Revenue (Lakhs) | Expenditure on Transportation cost by NTPC (Lakhs) |
| 2009              | 2010                 | 0.0                  | 0.0                   | 0.0                 | 0.0  | 0.0                              | 0.0  | 0.0   | 0.0  | 0.0  | #DIV/0! | 0.0  | 0.0                              | 0.0  | 0.0  | 0.0  | 0.0 | #DIV/0! | #REF!         | #REF!         | #REF!          | #REF!           | #REF!  |
| 2010              | 2011                 | 0.0                  | 0.0                   | 0.0                 | 0.0  | 0.0                              | 0.0  | 0.0   | 0.0  | 0.0  | #DIV/0! | 0.0  | 0.0                              | 0.0  | 0.0  | 0.0  | 0.0 | #DIV/0! | #REF!         | #REF!         | #REF!          | #REF!           | #REF!  |
| 2011              | 2012                 | 0.0                  | 0.0                   | 0.0                 | 0.0  | 0.0                              | 0.0  | 0.0   | 0.0  | 0.0  | #DIV/0! | 0.0  | 0.0                              | 0.0  | 0.0  | 0.0  | 0.0 | #DIV/0! | #REF!         | #REF!         | #REF!          | #REF!           | #REF!  |
| 2012              | 2013                 | 0.0                  | 0.0                   | 0.0                 | 0.0  | 0.0                              | 0.0  | 0.0   | 0.0  | 0.0  | #DIV/0! | 0.0  | 0.0                              | 0.0  | 0.0  | 0.0  | 0.0 | #DIV/0! | #REF!         | #REF!         | #REF!          | #REF!           | #REF!  |
| 2013              | 2014                 | 0.0                  | 0.00                  | 0.0                 | 0.0  | 0.0                              | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.0  | 0.0                              | 0.0  | 0.0  | 0.0  | 0.0 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2014              | 2015                 | 0.0                  | 0.00                  | 0.0                 | 0.0  | 0.0                              | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.0  | 0.0                              | 0.0  | 0.0  | 0.0  | 0.0 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2015              | 2016                 | 0.0                  | 0.00                  | 0.0                 | 0.0  | 0.0                              | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.0  | 0.0                              | 0.0  | 0.0  | 0.0  | 0.0 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2016              | 2017                 | 0.0                  | 0.00                  | 0.0                 | 0.0  | 0.0                              | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.0  | 0.0                              | 0.0  | 0.0  | 0.0  | 0.0 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2017              | 2018                 | 0.0                  | 0.00                  | 0.0                 | 0.0  | 0.0                              | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.0  | 0.0                              | 0.0  | 0.0  | 0.0  | 0.0 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2018              | 2019                 | 0.0                  | 0.00                  | 0.0                 | 0.0  | 0.0                              | 0.00   | 0.00  | 0.00   | 0.00 | #DIV/0! | 0.0  | 0.0                              | 0.0  | 0.0  | 0.0  | 0.0 | #DIV/0! | 0.00          | 0.00          | 0.00           | 0.00            | 0.00   |
| 2019              | 2020                 | 0.7                  | 0.13                  | 0.0                 | 0.0  | 0.0                              | 0.00   | 0.11  | 0.00   | 0.00 | 0.0     | 0.00   | 0.0                              | 0.02   | 0.0  | 0.0  | 0.0 | 2.7     | 0.00          | 0.02          | 0.11           | 0.13            | 0.00   |
| 2020              | 2021                 | 3.3                  | 1.99                  | 60.3                | 0.0  | 0.0                              | 1.40   | 0.00  | 0.00   | 1.40 | 42.4    | 0.48   | 99.52                            | 0.11   | 0.00   | 0.00   | 0.6 | 17.9    | 0.48          | 1.51          | 0.00           | 1.99            | 99.52  |
| 2021              | 2022                 | 6.0                  | 4.77                  | 79.4                | 0.0  | 0.0                              | 2.28   | 0.00  | 0.00   | 2.28 | 37.9    | 2.32   | 592.51                           | 0.16   | 0.00   | 0.00   | 2.5 | 41.3    | 2.32          | 2.44          | 0.00           | 4.76            | 592.51   |
| 2021              | 2022 (Till November) | 3.4                  | 2.57                  | 75.4                | 0.0  | 0.0                              | 1.11   | 0.00  | 0.00   | 1.11 | 32.6    | 1.4  | 357.55                           | 0.07   | 0.00   | 0.00   | 1.5 | 43.1    | 1.40          | 1.18          | 0.00           | 2.58            | 357.55   |
| 2022              | 2023 (Till November) | 6.8                  | 5.57                  | 82.2                | 0.0  | 0.0                              | 2.12   | 1.90  | 0.00   | 2.15 | 31.7    | 1.53   | 832.79                           | 0.03   | 0.00   | 0.00   | 1.6 | 23.0    | 1.53          | 2.15          | 1.90           | 5.58            | 832.79   |
| 01.04.2021        | 30.09.2021           | 2.3                  | 2.09                  | 90.1                | 0.0  | 0.0                              | 1.11   | 0.00  | 0.00   | 1.11 | 47.8    | 0.93   | 163.00                           | 0.05   | 0.00   | 0.00   | 1.0 | 42.2    | 0.93          | 1.16          | 0.00           | 2.09            | 163.00   |
| 01.10.2021        | 31.01.2022           | 2.45                 | 1.52                  | 62.08               | 0.16   | 0.15                             | 0.24   | 0.00  | 0.00   | 0.40 | 16.16   | 1.06   | 264.88                           | 0.08   | 0.00   | 0.00   | 1.1 | 46.5    | 1.22          | 0.32          | 0.00           | 1.54            | 265.03   |
| 01.02.2022        | 28.02.2022           | 0.74                 | 0.63                  | 85.14               | 0.25   | 0.25                             | 0.18   | 0.00  | 0.00   | 0.43 | 58.38   | 0.16   | 85.46                            | 0.04   | 0.00   | 0.00   | 0.2 | 27.0    | 0.41          | 0.22          | 0.00           | 0.63            | 85.71  |
| 01.03.2022        | 31.08.2022           | 4.46                 | 3.58                  | 80.20               | 1.24   | 1.23                             | 1.41   | 0.00  | 0.00   | 2.65 | 59.39   | 0.9  | 524.29                           | 0.03   | 0.00   | 0.00   | 0.9 | 20.9    | 2.14          | 1.44          | 0.00           | 3.58            | 525.52   |
| 01.09.2022        | Till date Dec '22    | 2.82                 | 2.53                  | 89.72               | 1.26   | 1.26                             | 0.47   | 0.00  | 0.00   | 1.73 | 61.35   | 0.8  | 308.5                            | 0.00   | 0.00   | 0.00   | 0.8 | 28.4    | 2.06          | 0.47          | 0.00           | 2.53            | 309.76   |

Barasni

## List of existing / just expired Sale order for Dry Fly Ash

| S. No.       | Station                    | Date of Start (no of orders) | Date of Completion (no of orders) | Value (Rs) (Lakhs) | Dry Fly Ash Quantity (LMT) |
|--------------|----------------------------|------------------------------|-----------------------------------|--------------------|----------------------------|
| 1            | Barauni                    | 01.01.2022 (09)              | 31.12.2022 (09)                   | 630.000            | 3.000                      |
|              |                            | 01.08.2022 (07)              | 31.07.2023 (07)                   | 1,320.110          | 6.000                      |
| 2            | Barh                       | 01.08.2022 (12)              | 31.07.2023 (12)                   | 1,072.880          | 10.290                     |
|              |                            | 01.11.2022 (04)              | 31.10.2023 (04)                   | 738.710            | 7.100                      |
| 3            | Bongaigaon                 | 11.12.2022 (23)              | 10.12.2023 (23)                   | 4,915.750          | 6.000                      |
| 4            | Dadri                      | 28.02.2022 (15)              | 27.02.2023 (15)                   | 977.220            | 1.340                      |
|              |                            | 14.06.2011 (08)              | 13.06.2023 (08)                   | 2,606.910          | 5.370                      |
|              |                            | 31.07.2022 (22)              | 30.07.2023 (22)                   | 1,897.000          | 2.440                      |
|              |                            | 01.12.2022 (02)              | 30.11.2023 (02)                   | 37.450             | 0.052                      |
|              |                            | 07.08.2001 (01)              | 06.08.2029 (01)                   | 1,413.370          | 2.910                      |
|              |                            | 26.09.2003 (01)              | 25.09.2028 (01)                   | 1,286.700          | 2.650                      |
| 5            | Darlipalli                 | Nil                          | Nil                               | Nil                | Nil                        |
| 6            | Farakka                    | 25.05.2022 (01)              | 30.11.2022 (01)                   | 30.600             | 0.060                      |
|              |                            | 01.08.2022 (05)              | 31.07.2023 (05)                   | 48.740             | 0.096                      |
|              |                            | 27.09.2022 (01)              | 26.09.2023 (01)                   | 1,656.000          | 3.600                      |
| 7            | Gadarwara                  | 08.02.2022 (03)              | 07.02.2023 (03)                   | 20.000             | 3.980                      |
| 8            | Kahalgaoon                 | 16.08.2022 (17)              | 15.08.2023 (17)                   | 626.912            | 2.320                      |
|              |                            | 20.10.222 (18)               | 15.08.2023 (18)                   | 3,666.000          | 14.100                     |
|              |                            | 01.02.2010 (01)              | 31.01.2035 (01)                   | 51.660             | 0.360                      |
|              |                            | 01.02.2014 (01)              | 31.01.2035 (01)                   | 71.500             | 0.500                      |
| 9            | Kanti                      | 01.01.2022 (03)              | 31.12.2022 (03)                   | 430.000            | 1.000                      |
|              |                            | 27.06.2022 (03)              | 31.12.2022 (03)                   | 21.830             | 0.050                      |
|              |                            | 29.07.2022 (03)              | 31.12.2022 (03)                   | 67.930             | 0.150                      |
| 10           | Khargone                   | 15.07.2022 (08)              | 14.07.2023 (08)                   | 185.350            | 3.690                      |
|              |                            | 22.07.2022 (01)              | 21.07.2023 (01)                   | 12.500             | 0.250                      |
|              |                            | 19.10.2022 (01)              | 18.10.2023 (01)                   | 3.300              | 0.050                      |
|              |                            | 25.10.2022 (01)              | 24.10.2023 (01)                   | 65.650             | 1.010                      |
|              |                            | 01.11.2022 (03)              | 31.10.2023 (03)                   | 79.700             | 1.200                      |
|              |                            | 09.10.2021 (01)              | 08.10.2022 (01)                   | 337.500            | 7.500                      |
| 11           | Korba                      | Nil                          | Nil                               | Nil                | Nil                        |
| 12           | Kudgi                      | 12.04.2022 (02)              | 11.04.2023 (02)                   | 3,150.000          | 9.000                      |
|              |                            | 18.04.2022 (07)              | 11.04.2023 (07)                   | 1,138.380          | 3.250                      |
|              |                            | 04.05.2022 (03)              | 11.04.2023 (03)                   | 229.250            | 0.660                      |
|              |                            | 15.07.2022 (02)              | 11.04.2023 (02)                   | 115.500            | 0.330                      |
|              |                            | 07.09.2022 (02)              | 11.04.2023 (02)                   | 38.500             | 0.110                      |
| 13           | Lara                       | Nil                          | Nil                               | Nil                | Nil                        |
| 14           | Mouda                      | 01.10.2022 (06)              | 30.09.2023 (06)                   | 8.500              | 8.500                      |
|              |                            | 01.07.2022 (02)              | 30.06.2023 (02)                   | 52.500             | 5.250                      |
| 15           | NSTPS(Nabinagar)           | 01.07.2022 (04)              | 30.06.2023 (04)                   | 1,738.200          | 11.560                     |
|              |                            | 01.08.2022 (06)              | 31.07.2023 (06)                   | 159.040            | 1.055                      |
| 16           | Ramagundam                 | 01.10.2022 (23)              | 30.09.2023 (23)                   | 3,884.860          | 14.800                     |
| 17           | Rihand                     | Nil                          | Nil                               | Nil                | Nil                        |
| 18           | Simhadri                   | 15.09.2022 (13)              | 15.09.2023 (13)                   | 256.730            | 6.367                      |
| 19           | Singrauli                  | Nil                          | Nil                               | Nil                | Nil                        |
| 20           | Sipat                      | Nil                          | Nil                               | Nil                | Nil                        |
| 21           | Solapur                    | 01.07.2022 (15)              | 30.6.2023 (15)                    | 7,260.110          | 12.120                     |
| 22           | Talcher-Kaniha             | Nil                          | Nil                               |                    |                            |
| 23           | Tanda                      | 01.11.2022 (18)              | 31.10.2023 (18)                   | 1,068.830          | 2.658                      |
|              |                            | 18.02.2019 (1)               | 17.02.2034 (1)                    | 868.5751693        | 2.400                      |
|              |                            | 01.11.2021 (39)              | 31.10.2022 (39)                   | 3,711.940          | 9.294                      |
| 24           | Unchahar                   | 19.12.2022 (09)              | 18.12.2023 (09)                   | 242.620            | 0.470                      |
|              |                            | 01.04.2022 (12)              | 27.06.2027 (12)                   | 3,351.890          | 14.980                     |
|              |                            | 18.12.2020 (01)              | 17.12.2022 (01)                   | 848.750            | 1.750                      |
| 25           | Vindhyachal                | Nil                          | Nil                               | Nil                | Nil                        |
| 26           | Jhajjar                    | 13.09.2022 (56)              | 12.09.2023 (56)                   | 9,609.080          | 16.620                     |
| 27           | NSPCL-Durgapur             | 06.10.2022 (02)              | 05.10.2023 (02)                   | 151.920            | 0.720                      |
|              |                            | 01.10.2021 (04)              | 30.09.2022 (04)                   | 426.700            | 1.700                      |
| 28           | NSPCL-Rourkela             | Nil                          | Nil                               | Nil                | Nil                        |
| 29           | NSPCL-Bhilai PP-II Captive | Nil                          | Nil                               | Nil                | Nil                        |
| 30           | NSPCL-Bhilai PP-III        | 18.08.2021 (02)              | 17.08.2022 (02)                   | 157.500            | 6.300                      |
|              |                            | 28.08.2022 (06)              | 27.08.2023 (06)                   | 146.710            | 5.870                      |
|              |                            | 22.10.2022 (07)              | 21.10.2023 (07)                   | 17.520             | 0.700                      |
| 31           | Vallure-NTECL              | 17.02.2022 (107)             | 16.02.2023 (107)                  | 5,193.740          | 14.430                     |
| 32           | Meja                       | 22.06.2022 (07)              | 21.06.2023 (07)                   | 482.500            | 2.780                      |
|              |                            | 02.09.2022 (09)              | 30.06.2023 (09)                   | 804.890            | 5.000                      |
|              |                            | 08.12.2022 (04)              | 30.06.2023 (04)                   | 753.000            | 5.020                      |
| 33           | BRBCL (Nabi Nagar)         | 27.01.2022 (03)              | 26.01.2023 (03)                   | 360.623            | 3.606                      |
| <b>Total</b> |                            | <b>No of Orders (547)</b>    |                                   | <b>70,499.630</b>  | <b>254.36773</b>           |

## List of existing / just expired sale order for Pond Ash

| S. No.       | Station                 | Date of Start (no of orders) | Date of Completion (no of orders) | Value (Rs) (Lakhs) | Pond Ash Quantity (LMT) |
|--------------|-------------------------|------------------------------|-----------------------------------|--------------------|-------------------------|
| 1            | Barauni                 | 24.11.2021 (03)              | 31.12.2022 (03)                   | 3.250              | 3.250                   |
| 2            | Barh                    | 23.11.2021 (01)              | 22.11.2022 (01)                   | 15.000             | 15.000                  |
| 3            | Bongaigaon              | Nil                          | Nil                               | Nil                | Nil                     |
| 4            | Dadri                   | 04.12.2022 (15)              | 03.12.2023 (15)                   | 36.000             | 0.276                   |
|              |                         | 04.12.2021 (29)              | 03.12.2022 (29)                   | 346.140            | 2.620                   |
| 5            | Darlipalli              | Nil                          | Nil                               | Nil                | Nil                     |
| 6            | Farakka                 | 24.11.2021 (01)              | 23.11.2022 (01)                   | 0.250              | 0.250                   |
| 7            | Gadarwara               | Nil                          | Nil                               | Nil                | Nil                     |
| 8            | Kahalgaoon              | 15.12.2021 (03)              | 14.12.2022 (03)                   | 1.950              | 1.950                   |
|              |                         | 09.12.2022 (07)              | 08.12.2023 (07)                   | 7.100              | 7.100                   |
| 9            | Kanti                   | 20.11.2021 (01)              | 19.11.2022 (01)                   | 0.250              | 0.250                   |
| 10           | Khargone                | Nil                          | Nil                               | Nil                | Nil                     |
| 11           | Korba                   | Nil                          | Nil                               | Nil                | Nil                     |
| 12           | Kudgi                   | 21.02.2022 (04)              | 02.02.2023 (04)                   | 451.900            | 5.800                   |
| 13           | Lara                    | Nil                          | Nil                               | Nil                | Nil                     |
| 14           | Mouda                   | Nil                          | Nil                               | Nil                | Nil                     |
| 15           | NSTPS(Nabinagar)        | Nil                          | Nil                               | Nil                | Nil                     |
| 16           | Ramagundam              | 18.11.2021 (02)              | 17.11.2022 (02)                   | 2633.000           | 6.550                   |
| 17           | Rihand                  | Nil                          | Nil                               | Nil                | Nil                     |
| 18           | Simhadri                | Nil                          | Nil                               | Nil                | Nil                     |
| 19           | Singrauli               | Nil                          | Nil                               | Nil                | Nil                     |
| 20           | Sipat                   | Nil                          | Nil                               | Nil                | Nil                     |
| 21           | Solapur                 | 15.12.2022 (37)              | 14.12.2023 (37)                   | 1088.100           | 4.570                   |
|              |                         | 25.11.2022 (11)              | 24.11.2023 (11)                   | 270.900            | 2.075                   |
| 22           | Talcher-Kaniha          | Nil                          | Nil                               | Nil                | Nil                     |
| 23           | Tanda                   | 01.12.2021 (01)              | 28.02.2023 (01)                   | 1.000              | 1.000                   |
| 24           | Unchahar                | 05.12.2021 (01)              | 04.12.2022 (01)                   | 1.000              | 1.000                   |
| 25           | Vindhyachal             | Nil                          | Nil                               | Nil                | Nil                     |
| 26           | Jhajjar                 | 11.01.2022 (26)              | 11.01.2023 (26)                   | 1744.400           | 10.550                  |
| 27           | NSPCL-Durgapur          | Nil                          | Nil                               | Nil                | Nil                     |
| 28           | NSPCL-Rourkela          | Nil                          | Nil                               | Nil                | Nil                     |
| 29           | NSPCL-Bhilai PP-II Capt | Nil                          | Nil                               | Nil                | Nil                     |
| 30           | NSPCL-Bhilai PP-III     | Nil                          | Nil                               | Nil                | Nil                     |
| 31           | Vallure-NTECL           | 26.01.2022 (01)              | 25.01.2023 (01)                   | 329.875            | 10.875                  |
|              |                         | 05.01.2022 (01)              | 04.01.2023 (01)                   | 139.500            | 4.500                   |
| 32           | Meja                    | Nil                          | Nil                               | Nil                | Nil                     |
| 33           | BRBCL (Nabi Nagar)      | Nil                          | Nil                               | Nil                | Nil                     |
| <b>Total</b> |                         | <b>No of Orders (144)</b>    |                                   | <b>7069.615</b>    | <b>77.616</b>           |

**Subject: O.A. NO. 878/2022 in Tamil Nadu Fly Ash Brick and Blocks Manufactures Association v. Govt. of India and ors.**

Shailesh Madiyal <shaileshmadiyal@salvuspartners.com>

Sent: Tue, 31 Jan 2023 12:52:35 GMT+0530

To: <advocatenandita@gmail.com>

Cc: "secy-moef@nic.in" <secy-moef@nic.in>, "naryanm.up@gov.in" <naryanm.up@gov.in>, "tnpcb-chn@gov.in" <tnpcb-chn@gov.in>, "cemtps@tnebn.net" <cemtps@tnebn.net.org>, "ceo.ntpl@nicindia.in" <ceo.ntpl@nicindia.in>, "purchase2@coasalenergen.com" <purchase2@coasalenergen.com>, "sepc.ppl@meilteam.in" <sepc.ppl@meilteam.in>, "cemtps@tnebn.net" <cemtps@tnebn.net.org>, "cenctps@tnebn.net" <cenctps@tnebn.net.org>, "cenctps2@tnebn.net" <cenctps2@tnebn.net.org>

1 Attachment: Reply.pdf [17485.54 KB]

Mam/Sir,

Please find attached the reply filed on behalf of Respondent No. 5 (NTPC Ltd.) in the above mentioned matter.

This is for your information and record. Kindly treat this as effective service.

Shailesh Madiyal  
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