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**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL**

**PRINCIPAL BENCH, NEW DELHI**

Original Application No. 1132 OF 2024

In the matter of:

Deepak

Applicant

Vs.

State of Haryana & Ors.

Respondents

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|---------------|--|----------------|
| 1.            | <b>Additional Response on behalf of respondent no. 28 Central Pollution Control Board (CPCB)</b> in O.A No. 1132 of 2024, Deepak Versus State of Haryana & Ors. in compliance to Hon'ble NGT, PB Order dated 28.10.2025. |                |
| 2.            | <b>Annexure I:</b> A copy of Hon'ble NGT order dated 28.10.2025 in O.A No. 1132 of 2024.   |                |
| 3.            | <b>Annexure 2:</b> A copy of the directions dated 12.02.2025 issued by CPCB to SPCBs/PCCs.   |                |



**Filed by Adv. Atif Suhrawardy  
On behalf of Central Pollution Control Board**

**Place: Delhi**

**Dated: 01.04.2026**

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL  
PRINCIPAL BENCH, NEW DELHI**

In  
Original Application No. 1132 of 2024

**In the matter of:**

Deepak Kumar

...Applicant

Versus

State of Haryana & Ors.

...Respondents

**ADDITIONAL RESPONSE ON BEHALF OF THE RESPONDENT NO.  
28, CENTRAL POLLUTION CONTROL BOARD (CPCB)**

**MOST RESPECTFULLY SHOWETH:**

1. That the Hon'ble National Green Tribunal, Principal Bench (hereinafter referred to as the "Hon'ble NGT") vide order dated 28.10.2025 observed that the CPCB, in its reply dated 14.07.2025 has mentioned that Ready Mix Cement Concrete Plant has been classified under "Green" category as per the revised Classification- 2025, **(Para 3)**.

The Hon'ble NGT directed that:

*"In view of air pollution generated by Ready Mix Concrete Plant containing silica particles, we have serious doubts regarding its categorization in 'green' category and we consider it necessary that the matter is required to be duly considered again on the basis of the material relied upon by CPCB. **(Para 4).**"*

A copy of the Hon'ble NGT order dated 28.10.2025 is annexed as **Annexure-I**.

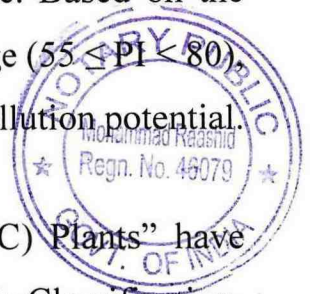


2. That it is humbly submitted that industrial sectors are classified by CPCB into different colour coded categories (Red, Orange, Green and White) based on Cumulative Pollution Index (PI), which is calculated by evaluation of three critical environmental pollutants i.e. water, air, and waste, having potential to get generated during the operations.

During 2025, CPCB has revised the methodology for classification and prepared "Report on Classification of Sectors into Red, Orange, Green, White and Blue Categories (A tool for progressive environmental management)" (hereinafter referred to as "Classification- 2025"). CPCB vide letter dated 12.02.2025 issued directions under section 18(1)(b) of the Water Act, 1974 and the Air Act, 1981 to all SPCBs and PCCs for its adoption and implementation of Classification-2025. A copy of the CPCB directions dated 12.02.2025 is annexed as **Annexure II**.

Further, it is humbly submitted that the Classification-2025 was finalized by following a structured process which included, review of literature, data collection and consultation. The methodology was finalized after critical examination of inputs received through 170 representations (700+ comments) from different stakeholders such as industrial associations, SPCBs/PCCs, academic institutions, individual industries and general public. Based on the Pollution Index, sectors are categorized as Red ( $PI \geq 80$ ), Orange ( $55 \leq PI < 80$ ), Green ( $25 \leq PI < 55$ ) and White ( $PI \leq 25$ ) depending on their pollution potential.

3. That as per Classification-2025, "Ready-Mix Concrete (RMC) Plants" have been classified under "Green" Category having PI score of 30. In Classification-2025, the Air Pollution Score (PIA) is derived from three sub-components: (A1) type of pollutants in emissions, (A2) work-zone emissions/fugitive emissions and odour nuisance, and (A3) fuel type and consumption. The respective



weightages assigned to A1, A2, and A3 are 35%, 30%, and 35%. In case of RMC plants, the maximum score (30) under the fugitive/work-zone emission component (A2) has been considered.

4. That upon the aforesaid order dated 28.10.2025 passed by the Hon'ble NGT, CPCB convened a meeting on 10.03.2026 with expert institutes, namely National Council for Cement and Building Materials (NCCBM), Advanced Materials and Processes Research Institute (AMPRI), and National Buildings Construction Corporation (NBCC) to deliberate on the concern raised by the Hon'ble NGT, regarding air pollution by Ready Mix Concrete Plants and its categorization in 'green' category.
5. That after detailed deliberations, following was concluded in the said meeting on 10.03.2026:
  - i. The RMC plant produces concrete in batches where cement, aggregates, fly ash, admixtures, and water are mixed in predetermined proportions. Generally, the fine material i.e. Cement and Fly ash are stored in closed silos and transferred to the mixer through closed screw conveyors or pneumatics system. The aggregates and sand are fed to the mixer through closed belt conveyors. Further, the water is added to the mixer as per the design mix and once the concrete achieves the required consistency and quality, it is transported to the construction site using specialized closed vehicles known as "Transit Mixers".
  - ii. The Environmental issues primarily include fugitive dust emissions due to inherent dry and dusty nature of primary raw materials used in the process, material transfer points, cement de-bagging, re-suspension of settled dust due to movement of vehicles. The



fugitive emission from RMC plants may be controlled through adequate dust mitigation measures such as enclosed material handling systems, pneumatic conveyance, bag filters on silos, and water sprinkling. There are no other process or fuel related emissions in RMC plant operations, except the said fugitive emissions.

- iii. There are two distinct types of silica found in nature, crystalline and amorphous silica. [The health risks are primarily associated with respirable crystalline silica dust (very fine particles, typically less than 10  $\mu\text{m}$ )]<sup>[1]</sup>, [which may generate during crushing, grinding, drilling or cutting of silica-containing materials]<sup>[2]</sup>. There is no crushing or grinding processes involved in RMC operations.
- iv. Crystalline silica is a recognized occupational hazard and exposure limits are prescribed by International Agencies such as Occupational Safety and Health Administration (OSHA). Worker's safety and dust exposure in factories are governed under the Factories Act, 1948 and enforced by the Directorate of Factories.
- v. While determining the pollution potential of RMC Plants, the highest score of 30 for fugitive emissions have already been considered by CPCB. Thus, the assigned Pollution Index for the RMC plant as 30 and its classification under Green category is appropriate.

- 6. That all the units under Green category are required to obtain prior Consent to Establish (CTE) as well as Consent to Operate (CTO) under the provisions of the Water Act, 1974 and the Air Act, 1981 from concerned SPCB/PCC. Therefore, "Ready mix concrete plants" are covered under consent regime and are required to comply with the consent conditions prescribed by the concerned SPCB/PCC.



7. That CPCB is also in the process of preparing Environmental Guidelines for Ready Mix Concrete (RMC) Plants to address the environmental issues associated with RMC plant operations.
8. That, in the light of the above submissions, it is respectfully submitted that this Answering Respondent, i.e., CPCB, shall abide by any order(s) or direction(s) passed by this Hon'ble Tribunal in the instant Original Application.

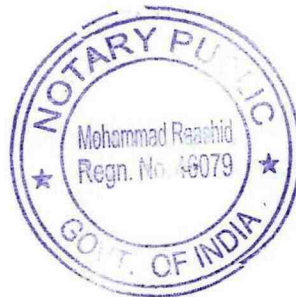
[1] <https://pmc.ncbi.nlm.nih.gov/articles/PMC10202533/>

[2] <https://www.osha.gov/silica-crystalline>



**(Anamika Sagar)**  
**Scientist-E**

**The Central Pollution Control Board**  
**01.04.2026**



**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL  
PRINCIPAL BENCH, NEW DELHI**

In  
Original Application No. 1132 of 2024

**In the matter of:**

Deepak Kumar

...Applicant

Versus

State of Haryana & Ors.

...Respondents

**AFFIDAVIT**

I, **Anamika Sagar**, working as Scientist 'E', having office at the Delhi, CPCB, Respondent No. 28, Parivesh Bhawan, East Arjun Nagar, Delhi, do hereby solemnly affirm and sincerely state on oath as follows: -

1. That I, the deponent herein, is well conversant with the facts and circumstances of the present case on the basis of the information derived from the official records, and hence, I am competent to verify, sign and swear this affidavit on behalf of the Respondent CPCB.
2. That the accompanying response may be read part and parcel of the present affidavit.
3. That the accompanying response has been drafted and filed under my instructions, the contents thereof are true and correct based on the record maintained during the ordinary course of business of CPCB and available records and documents and the contents of the same are read over and explained to me and are not repeated herein for the sake of brevity.



*Anamika Sagar*  
**DEPONENT**

अनामिका सागर / Anamika Sagar  
वैज्ञानिक 'ई' / Scientist 'E'  
केंद्रीय प्रदूषण नियंत्रण बोर्ड  
Central Pollution Control Board  
(पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार)  
(M/o Environment, Forest & Climate Change, Govt. of India)  
परिवेश भवन, पूर्वी अर्जुन नगर, दिल्ली-110032  
Parivesh Bhawan, East Arjun Nagar, Delhi-110032

**VERIFICATION**


Verified at New Delhi on this day of \_\_\_\_ April, 2026, that the contents above are correct and true based on the records of the case as mentioned in the day-to-day affairs of the CPCB. Nothing has been concealed therefrom or misstated.

  
**DEPONENT**

अनामिका सागर / Anamika Sagar  
वैज्ञानिक 'ई' / Scientist 'E'  
केंद्रीय प्रदूषण नियंत्रण बोर्ड  
Central Pollution Control Board  
(पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार)  
(M/o Environment, Forest & Climate Change, Govt. of India)  
परिवेश भवन, पूर्वी अर्जुन नगर, दिल्ली-110032  
Parivesh Bhawan, East Arjun Nagar, Delhi-110032



**ATTESTED**

  
NOTARY PUBLIC  
DELHI (India)

01 APR 2026

Item No. 04

Court No. 2

**BEFORE NATIONAL GREEN TRIBUNAL  
PRINCIPAL BENCH, NEW DELHI**

Original Application No. 1132/2024

Deepak

Applicant

Versus

State of Haryana &amp; Ors.

Respondents

Date of hearing: 28.10.2025

**CORAM: HON'BLE MR. JUSTICE ARUN KUMAR TYAGI, JUDICIAL MEMBER  
HON'BLE DR. AFROZ AHMAD, EXPERT MEMBER**

Applicant: None for the Applicant.

Respondents: Mr. Rahul Khurana, Advocates for respondents No. 1 to 4.  
None for respondents no. 5 and 17.  
None for respondents no. 7, 8 and 10.  
Mr. Gaurav Agarwal, Advocate for respondents no. 15 and 25 (through VC).  
Mr. Som Raj Chaudhary, Advocates for respondent no. 23.  
Mr. J.K. Sharma, Advocate for respondent no. 24.  
Mr. Atif Suhrawardy, Advocate for respondent no.28.

**ORDER**

1. Vide order dated 04.09.2025, respondents, who had not filed their responses, were granted opportunity to file their responses within 15 days. However, no responses have been filed by such respondents.

2. One more opportunity is granted to the respondents, who have not filed their responses so far, to file their responses within one month.

3. In its reply dated 14.07.2025, CPCB has mentioned that ready mix cement concrete plant has been classified under 'green' category as per the revised Classification- 2025.

4. In view of air pollution generated by ready mix concrete plant containing silica particles, we have serious doubts regarding its categorization in 'green'

category and we consider it necessary that the matter is required to be duly considered again on the basis of the material relied upon by CPCB.

5. Learned counsel for respondent no. 28- CPCB seeks time to file additional response for placing relevant material before this Tribunal.

6. In the present case as per report filed by HSPCB, 21 ready mix plants were set up without obtaining CTE and CTO from HSPCB.

7. In order dated 17.07.2025, this Tribunal had highlighted the necessity of taking prompt remedial action at the initial stages of setting up of such plants for ensuring that such plants are not set up and operated in violation of environmental norms as subsequent orders for closure and environmental compensation are not sufficient remedy to irreversible environmental damage caused by illegal operation of such plants.

8. In view of the above, HSPCB is directed to compile information regarding operation of all such concrete ready mix plants in the State of Haryana and verify their compliance status regarding compliance with environmental norms and to take appropriate action in case of non-compliance against the violators in accordance with law and to upload the information in this regard on its website with all requisite details within one month.

9. In view of the observations made by Hon'ble Supreme Court in ***Civil Appeal No. 757-760 of 2013, Delhi Pollution Control Committee v. Lodhi Property Co. Ltd. Etc.***, permitting SPCBs/ PCCs to impose and realize environmental compensation under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, and HSPCB may also take further action for imposition and realization of environmental compensation from the violators.

10. List on 01.04.2026 for final hearing.

11. A copy of this order may be sent to the Member Secretary, HSPCB by email for requisite compliance.

Arun Kumar Tyagi, JM

Dr. Afroz Ahmad, EM

October 28<sup>th</sup>, 2025  
Original Application No. 1132/2024  
AB



केन्द्रीय प्रदूषण नियंत्रण बोर्ड  
CENTRAL POLLUTION CONTROL BOARD  
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार  
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE, GOVT. OF INDIA

CP-18/1/2023-IPC-VI-HO-CPCB-HO

Date: 12.02.2025

To

The Chairman

State Pollution Control Board/Pollution Control Committee

(As per the list)

**Sub: Directions under section 18(1)(b) of the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 regarding harmonization of classification of industrial sectors under Red, Orange, Green, White and Blue categories.**

WHEREAS, under section 16 (2)(b) of the Water (Prevention and Control of Pollution) Act, 1974 and under Section 16 (2)(c) of the Air (Prevention & Control of Pollution) Act, 1981, one of the functions of the Central Pollution Control Board (CPCB), constituted under the Water (Prevention and Control of Pollution) Act, 1974, is to coordinate activities of the State Pollution Control Boards (SPCBs) and Pollution Control Committees (PCCs); and

WHEREAS, under section 16 (2)(c) of the Water (Prevention and Control of Pollution) Act, 1974 and under Section 16 (2)(d) of the Air (Prevention & Control of Pollution) Act, 1981, one of the functions of the CPCB is to provide technical assistance and guidance to SPCBs and PCCs; and

WHEREAS, it was brought to the notice of CPCB, that different SPCBs/PCCs were following different criteria for the classification of industrial sectors under different categories. Therefore, in 2012, to have uniformity in classification throughout the country, CPCB vide letter no. B-29012/1/2012/ESS/1526-1563, dated 04.06.2012 issued directions under section 18(1)(b) of the Water Act, 1974 and the Air Act, 1981 to SPCBs/PCCs to adopt and implement standardized list of Red, Orange and Green categories of industries; and

WHEREAS, in 2016, the Central Pollution Control Board (CPCB) developed a scoring methodology based on the Pollution Index (PI) to harmonize the criteria for classification of industrial sectors. The PI is determined based on Precautionary Principle- by evaluating potential of water pollution, air pollution, and hazardous waste generation from particular sector. CPCB vide letter no. B-29012//ESS(CPA)/2015-16, dated 07.03.2016 issued directions under section 18(1)(b) of the Water Act, 1974 and the Air Act, 1981 to SPCBs/PCCs to adopt and implement revised classification. SPCBs/PCCs were also directed to categorize any new or left over sectors at their level by constituting a Committee and following the methodology prescribed by CPCB; and

‘परिवेश भवन’ पूर्वी अर्जुन नगर, दिल्ली-110032

Parivesh Bhawan, East Arjun Nagar, New Delhi - 110032

दूरभाष/Tel: 43102030, 22305792, वेबसाइट/Website : www.cpbc.nic.in

WHEREAS, CPCB vide letter no. B-29016/ROGW/IPC-VI/2020-21, dated 30.04.2020, issued directions under section 18(1)(b) of the Water Act, 1974 and the Air Act, 1981 to SPCBs/PCCs regarding segregated list of non-industrial sectors (activities/ facilities/ infrastructure/ services) such as sewage treatment plants, healthcare facilities, hotels, building and construction projects, airports, highways etc. Further, CPCB also classified few additional sectors from time to time; and

WHEREAS, based on the experience gained over the years in Pollution Index calculation, use of cleaner fuels like PNG/CNG etc., adoption of cleaner technology resulting in reduced emission/wastewater generation, a need was felt to revisit the classification methodology of 2016; and

WHEREAS, during July 2023, CPCB prepared a “Draft Report on Classification of Industrial Sectors into Red, Orange, Green and White Categories: A Tool for Progressive Environmental Management” which was uploaded on CPCB website for seeking comments/suggestions of the stakeholders/public on the same. The draft report was also circulated to SPCBs/PCCs/MoEF&CC for comments; and

WHEREAS, CPCB vide office order dated 26.09.2023 constituted a committee to critically examine and analyse the comments/suggestions and to make recommendations for suitable incorporation in the finalizing the methodology and classification; and

WHEREAS, based on the stakeholders’ comments, a need was felt to promote/incentivize units for adopting measures resulting in better environmental performance. Additionally, a requirement was also felt for separate category – Blue Category- for essential environmental services for management of environmental pollution arising from domestic/household activities. Accordingly, CPCB prepared an “Addendum and substitution thereto in Draft Report on Classification of Sectors into Red, Orange, Green, White and Blue Categories”, which was shared with SPCBs/PCCs and also uploaded on CPCB website on 11.07.2024 for seeking inputs/comments; and

WHEREAS, the amendment in Section-21 of the Air (Prevention and Control of Pollution) Act, 1981 through the Jan Vishwas (Amendment of Provisions) Act, 2023 and amendment in Section-25 of the Water (Prevention and Control of Pollution) Act, 1974 through the Water (Prevention and Control of Pollution) Amendment Act, 2024, grant exemption to certain categories of industries, as notified by Central Government, for obtaining consent under these Acts; and

WHEREAS, the Ministry of Environment, Forest and Climate Change, Government of India vide notification no. G.S.R. 702(E), dated 12.11.2024 granted exemption of consent under the Water Act, 1974 and the Air Act, 1981 to exemption of Consent to Establish (CTE) and Consent to Operate (CTO) to all industrial plants having pollution index score upto 20 (at present total 39 industrial sectors under white categories as per 2016 methodology) subject to

condition that such plant shall inform in writing to the concerned State Pollution Control Board (SPCB) or Pollution Control Committee (PCC); and

WHEREAS, the MoEF&CC vide letter no. Q-15012/2/2022/-CPW-Part (1)/e-240741, dated 14.11.2024 has issued Standard Operating Procedure for implementation of the said Notification dated 12.11.2024. The SOP includes the following provisions for White categories of industries:

- i. Industry to intimate to concerned SPCB/PCC about operations and self-declare the compliance with prevalent rules & regulations,
- ii. Concerned SPCB/PCC to maintain separate list of such industries/activities, and
- iii. Concerned SPCB/PCC to ensure that no activities other than those intimated, are carried out by exempted units.

WHEREAS, the Committee constituted by CPCB evaluated the comments, incorporated the suitable changes and finalized the revised methodology as well as classification of sectors. Final report in this regard titled as "Classification of sectors in to Red, Orange, Green, White and Blue Categories (A tool for progressive environmental management)" was submitted to Ministry of Environment, Forest and Climate Change (MoEF&CC) for concurrence. The MoEF&CC vide letter no. Q-16017-57-2015-CPA, dated 15.01.2025 granted concurrence to the revised classification; and

WHEREAS, as per the revised methodology, the category of the sector is decided based on the following ranges of Pollution Index:

- i. Red:  $PI \geq 80$ ,
- ii. Orange:  $55 \leq PI < 80$ ,
- iii. Green:  $25 \leq PI < 55$ ,
- iv. White:  $PI < 25$ ; and

WHEREAS, based on the revised methodology, CPCB has classified a total of 419 sectors and sub-sectors as under:

- i. The Red Category: 125
- ii. The Orange Category: 137
- iii. The Green Category: 94
- iv. The White Category: 54
- v. The Blue Category: 9; and

WHEREAS, the purpose of classification is to ensure that the industry is established in a manner consistent with the environmental objectives and also to prompt industrial sectors to adopt cleaner technologies, ultimately resulting in the generation of no or minimum pollutants. The revised classification system also defines criteria for incentivizing such industry. The industry may self-assess the PI score as per defined criteria and can submit application to respective SPCBs/PCCs for consideration; and

**NOW, THEREFORE**, in the exercise of the powers delegated under Section 18(1)(b) of the Water (Prevention & Control of Pollution) Act, 1974 and Section 18(1)(b) of the Air (Prevention & Control of Pollution), Act, 1981 the earlier directions dated 07.03.2016 and subsequent directions/letter in the context of categorization of industries are withdrawn with immediate effect and following '**Directions**' are hereby issued for compliance by all SPCBs and PCCs:

1. That SPCBs and PCCs shall immediately adopt the revised methodology for classification of sectors and list of 419 sectors/sub-sectors classified under Red, Orange, Green, White, and Blue categories as detailed in the **attached** report- "Classification of Sectors into Red, Orange, Green, White and Blue Categories (A tool for progressive environmental management)".
2. That all pending application for consideration of consent (CTE/CTO) and future such application shall be processed as per the revised classification. In case CTE granted before the revised classification, applicability of CTO will be as per revised classification.
3. That the revised sectors/subsectors classified under Red, Orange, Green, White, and Blue category of sectors as given in the attached document shall be used by the SPCBs and PCCs for consent management, inventorization of units under different categories, siting criteria, deciding environmental surveillance frequency, calculation of environmental compensation, etc., as per the guidelines issued from time to time.
4. That SPCBs and PCCs shall prepare the inventory of Red, Orange, Green, White and Blue categories of units operating in their jurisdictions, based on the revised classification. SPCBs and PCCs shall upload the category and sector-wise list of such units on their website. SPCBs and PCCs shall also forward such list to CPCB, latest by 30.06.2025 and thereafter updated list by 30th June every year.
5. That the classification of sectors shall not be linked to sanction of loans/finance of bank proceedings.
6. That any further addition of any new or left-out sector and their classification which is not listed in the revised list of Red, Orange, Green, and White categories, shall be done at the level of concerned SPCB /PCC by constituting a Committee and following revised criteria & guidelines as detailed in the attached report and no concurrence of CPCB shall normally be required. Intimation of same from time to time will suffice. However, addition in Blue Category Sectors-Essential Environmental Services for domestic waste management, will be done at the level of CPCB only. SPCBs/PCCs may forward their proposal, if any, to CPCB in this regard.
7. That SPCBs and PCCs are required to prepare and submit list of additional sector classified under white category to CPCB on annual basis, by 30<sup>th</sup> of June every year, in the prescribed format (Annexure-V) as given in the attached report, for further notification for exemption from consent as per the provisions of the Jan Vishwas (Amendment of Provisions) Act, 2023, the Water Act, and the Air Act as amended from time to time by MoEF&CC.
8. That SPCBs and PCCs shall constitute a committee as prescribed in the report to evaluate the applications of the units for incentives due to adopting measures resulting in better environmental performance and reduction in PI score. The SPCB/PCC shall

place the separate list of such units on their website and also submit list of such units to CPCB on Annual Basis by 30th June every year.

The SPCBs/PCCs shall acknowledge the receipt of directions and submit the "Action Taken Report" in compliance with these directions to CPCB before 20.02.2025.

**Encl.** As above.

**(Bharat Kumar Sharma)**

Member Secretary

Copy to:

1. The Chief Secretary of all the States and UTs  
(As per the list)
2. The Secretary,  
Ministry of Micro, Small and Medium Entrepreneurs  
Udyog Bhawan, Rafi Marg, New Delhi - 110 011
3. The Secretary,  
Ministry of Heavy Industries  
Udyog Bhawan, Rafi Marg, New Delhi - 110 011
4. The Secretary,  
Ministry of New and Renewable Energy  
Block-14, CGO Complex,  
Lodhi Road, New Delhi-110 003
5. The Joint Secretary (CP Division)  
Ministry of Environment, Forests and Climate Change  
Indira Paryavaran Bhawan  
Jor Bagh Road, New Delhi - 110 003
6. All Regional Directorates, CPCB  
(As per the list)

**(Bharat Kumar Sharma)**

Member Secretary

| <b>Address List of The Chief Secretaries of States/UTs</b>  |   |
|---|---|
| 1. The Chief Secretary,<br>Government of Andhra Pradesh,<br>1 <sup>st</sup> Block,<br>A.P Secretariat Office,<br>Velagapudi- 522503<br><br>E-mail:- ( <a href="mailto:cs@ap.gov.in">cs@ap.gov.in</a> )  | 2. The Chief Secretary,<br>Government of Arunachal Pradesh,<br>Civil Secretariat,<br>Itanagar-791111<br><br>E-mail:- ( <a href="mailto:Cs-arunachal@nic.in">Cs-arunachal@nic.in</a> )   |
| 3. The Chief Secretary,<br>Government of Assam,<br>Block-C,3 <sup>rd</sup> Floor,<br>Assam Sachivalaya,<br>Dispur-781006<br><br>E-mail:- ( <a href="mailto:Cs-assam@nic.in">Cs-assam@nic.in</a> )   | 4. The Chief Secretary,<br>Government of Bihar,<br>Main Secretariat,<br>Patna-800015<br><br>E-mail:- ( <a href="mailto:Cs-bihar@nic.in">Cs-bihar@nic.in</a> )   |
| 5. The Chief Secretary,<br>Government of Chattisgarh,<br>Mahanadi Bhawan,<br>Mantralaya,<br>Naya Raipur-492002<br><br>E-mail:- ( <a href="mailto:Csoffice.cg@gov.in">Csoffice.cg@gov.in</a> )   | 6. The Chief Secretary,<br>Government of Goa,<br>Secretariat,<br>Porvrom, Bardez,<br>Goa-403521<br><br>E-mail:- ( <a href="mailto:Cs-goa@nic.in">Cs-goa@nic.in</a> )  |
| 7. The Chief Secretary,<br>Government of Gujarat,<br>1 <sup>st</sup> Block, 5 <sup>th</sup> Floor,<br>Sachivalaya,<br>Gandhinagar-382010<br><br>E-mail:- ( <a href="mailto:chiefsecretary@gujarat.gov.in">chiefsecretary@gujarat.gov.in</a> ) | 8. The Chief Secretary,<br>Government of Haryana,<br>4 <sup>th</sup> Floor, Haryana Civil Secretariat,<br>Sector-1,<br>Chandigarh-160019<br><br>E-mail:- ( <a href="mailto:cs@hry.nic.in">cs@hry.nic.in</a> )                     |
| 9. The Chief Secretary,<br>Government of Himachal Pradesh,<br>H.P Secretariat,<br>Shimla-171002<br><br>E-mail:- ( <a href="mailto:Cs-hp@nic.in">Cs-hp@nic.in</a> )  | 10. The Chief Secretary,<br>Government of Jammu & Kashmir,<br>R. No. 2/7, 2 <sup>nd</sup> Floor,<br>Main Building,<br>Civil Secretariat,<br>Jammu-180001<br><br>E-mail:- ( <a href="mailto:Cs-jandk@nic.in">Cs-jandk@nic.in</a> ) |
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# **Classification of Sectors into Red, Orange, Green, White and Blue Categories**

(A tool for progressive environmental management)



**Central Pollution Control Board**

**“Parivesh Bhawan”, East Arjun Nagar**

**Delhi-110032**

**(January 2025)**

तन्मय कुमार, भा.प्र.से.  
अध्यक्ष

Tanmay Kumar, I. A. S.  
Chairman



## FOREWORD

केन्द्रीय प्रदूषण नियंत्रण बोर्ड  
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CENTRAL POLLUTION CONTROL BOARD  
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE, GOVT. OF INDIA

The concept of classifying industries into different pollution categories originated in 1989 with the Doon Valley (Uttarakhand) Notification issued by Ministry of Environment and Forests. Subsequently the concept of pollution index was developed by Central Pollution Control Board (CPCB) during 2016 to classify the sectors into different category. The 2016 classification helped State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) in streamlining consent management, prioritizing regulatory oversight & environmental monitoring, taking decision related to siting of units, etc. However, necessity felt for refining the concept of calculating Pollution Index to overcome certain limitation and to bifurcate sub-sectors based on pollution load, scale of operation etc.

Accordingly, draft methodology was prepared and widely circulated for inputs/comments/suggestions by placing the same on CPCB website (public domain) as well as by inviting comments from MoEF&CC/SPCBs/PCCs. As of 11.08.2024, i.e. the extended date for receipt of suggestions, CPCB received 170 representations, comprising over 700 comments from PSUs, NGOs, industries, industrial associations, including feedback from SPCBs of Kerala, Nagaland, Tamil Nadu, Mizoram, West Bengal, Punjab and Lakshadweep. The report has been finalised after examining all the comments by a working committee.

The 2025 classification methodology bifurcates sub-sectors based on pollution load, scale of operation, production technology, and type of fuel used into Red, Orange, Green, White and Blue categories. Red indicates the highest pollution potential, requiring stringent regulatory oversight, while White signifies minimal or no pollution, with much reduced compliance burden of merely intimation to the concerned SPCBs/PCCs. **A new Blue Category has also been introduced to distinguish the Essential Environmental Services** required for management of environmental concerns arising from anthropogenic pollution due to domestic/household activities which otherwise will have large littering potential. Additional 2 years validity for consent to operate (as per Pollution Index) is prescribed for the blue category.

This report also outlines the implementation pathway, which includes guidelines for State Pollution Control Boards/Pollution Control Committees to follow and implement the new classification system. Earlier classified 257 sectors have now been bifurcated and classified into 403 sectors (including sub sectors) and additionally, 16 new sectors have been introduced. Thus, the revised classification of 273 key sectors comprising of total 419 sectors/sub-sectors are further classified into Red Category (125 nos.), Orange Category (137 nos.), Green Category (94 nos.), White Category (54 nos.) and Blue Category (9 nos.). Progression between red, orange and green categories for the industrial sectors is also incorporated based on the use of less polluting available processes and technologies.

The report also comprises provisions for individual units to adopt cleaner technologies and practices resulting in reduction of pollution load in any sector. Incentives, such as extended validity for Consent to Operate (CTO) and reduced inspection frequencies, are outlined to encourage continual improvement of environmental performance. The incentive mechanism allowing progression between categories will thereby promote Ease of Doing Business by extended consent validity and enhance duration between inspections, thereby leading to reduced compliance burden.

To sum up, this report aims to create a more transparent, consistent, and incentivized regulatory mechanism for better environment management, promoting sustainable industrial development and better governance. I hope the report will be useful to all concerned in the field of industrial pollution control in the country and would incentivise the industries to switch over to cleaner process and technology leading to reduced air, water and soil pollution and also encourage setting up of blue category industries.

I would like to place on record my sincere appreciation for the hard work and valuable contributions by the CPCB team comprising of Shri Amit R. Thakkar, Add. Director, Shri Saubhagya Dixit, Scientist D, and Dr. Anantha N. S., SSA under the guidance of Shri Bharat Kumar Sharma, Member Secretary. I would also like to extend my thanks to Dr. Prashant Gargava, former Member Secretary, Shri P. K. Gupta, former Director and Shri Ajay Aggarwal, former Director, for their contribution. I would also express gratitude to the Working Committee, CPCB, MoEF&CC, SPCBs/PCCs and others for their contributions in the preparation of this report.

  
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## EXECUTIVE SUMMARY

The concept of classification of industrial sectors into red, orange, and green categories based on the size of operations and consumption of resources was first introduced in 1989 for Doon Valley, Uttarakhand. This classification aimed to aid decisions regarding siting of industries. Over the period of time, this concept was extended nationwide to manage consents and establish norms for surveillance and inspection of industry. In 2012, to have uniformity in classification throughout the country, the Central Pollution Control Board (CPCB) issued a standardized list of 244 sectors, classified under red (85 sectors), orange (73 sectors) and green (86 sectors) categories.

In 2016, the Central Pollution Control Board (CPCB) developed a scoring methodology based on the Pollution Index (PI) to harmonize the criteria for categorizing industries. This PI was determined by evaluating water pollution, air pollution, and hazardous waste generation. Using this methodology, CPCB classified 257 industrial sectors into four categories: Red (63 sectors), Orange (91 sectors), Green (65 sectors), and White (38 sectors). The White category was introduced for sectors considered "practically non-polluting" during 2016. Additionally, State Pollution Control Boards (SPCBs) and Pollution Control Committees (PCCs) were authorized to categorize any new or left over sectors according to the CPCB's 2016 methodology.

Further, based on the experience gained over the years, the increased use of cleaner fuels like PNG and bio-CNG, adoption of cleaner technology resulting into reduced wastewater generation, normalisation approach & different formula for calculating PI etc. a need was felt to revisit the classification methodology of 2016 for several such identified areas for improvement. Separate scoring for trade effluent and sewage effluent was also required due to differing characteristics and treatment methods.

Considering the scope of revision, CPCB published a draft report revising the methodology for calculating PI and accordingly classification of sectors into Red, Orange, Green, and White categories based on pollution index range was placed in the public domain for inputs/comments. Around 160 representations comprising more than 700 comments were received. Based on feedback/suggestions and examination of same by the working committee constituted for the purpose, the methodology was finalised. As per the final methodology, the scoring criteria for the following three major pollutant groups are as follows:

- i. Water Pollutant Score (PI<sub>W</sub>): Assesses the water pollution potential considering the oxygen demand of wastewater, other pollutants in the wastewater and quantity of wastewater generated.
- ii. Air Pollutant Score (PI<sub>A</sub>): Evaluates the potential air pollution due to process emissions (point source), work zone emissions (fugitive and odour) and type & quantity of fuel used.
- iii. Waste Pollutant Score (PI<sub>H</sub>): Considering the type and quantity of waste (which are hazardous/toxic/infectious/bulk in nature) generated.

Each pollutant group is scored out of 100, and the Cumulative Pollution Index is calculated. The category of the sector is decided based on the pollution index range, if  $PI \geq 80$  the category

of sector is Red, if PI ranges between  $55 \leq PI < 80$ , the category of sector is orange, similarly for the range of PI between  $25 \leq PI < 55$ , the category is Green and for  $PI < 25$ , the category of the sector is white.

Further, based on the stakeholders' comments, a need was felt to introduce a separate "blue category" for Essential Environmental Services (ESS) required for management of waste generated from domestic/household activities and, an incentive mechanism to promote units in a particular sector, taking measures resulting into better environmental performance. An addendum was prepared, shared and presented to all SPCBs/PCCs. The addendum was also placed in the CPCB Website on 11.07.2024 for inputs/comments. 09 representations were received in the addendum. All representations were examined, and classification based on revised methodology is finalised. Based on the revised methodology, CPCB has classified total 419 sectors and sub-sectors under Red (125), Orange (137), Green (94), White (54) and Blue (9) categories.

The report introduced incentive mechanism for the units in any sector that adopt environment friendly practices such as treatment and recovery of 100% wastewater, use of 100% cleaner fuel/renewal energy etc. and ensuring continuous compliance. These incentives are designed to encourage continuous improvement in environmental performance and to reward units that demonstrate proven implementation of sustainable practices and compliances.

Following are the salient features of the revised classification methodology:

- Methodology focusses on "Potential to pollute the environment" by the sector.
- Simplified single formula for Cumulative Pollution Index for all cases.
- Equal weightage to all three pollutant groups- Air, Water, and Waste.
- Cumulative PI based on weighted proportionate scores of pollutant groups.
- Separate scoring criteria for sectors generating sewage (such as Building & construction projects, STPs, Airports, etc.) and bio-medical waste (Health Care Facilities).
- Introduced Blue Category for 9 sectors under Essential Environmental Services required for management of waste generated from domestic/household activities.
- Appropriate weightage to scale of operations by introducing more slabs to bifurcates sub-sectors based on pollution load, scale of operation, production technology and type of fuel used.
- Introduction of sub-categories for sectors based on cleaner technologies, fuel types, integrated/segregated operations etc.
- Motivation to industries for progressive environmental management.
- A tool to assess the Cumulative Pollution Index and category based on revised method.

This report, prepared by the Central Pollution Control Board (CPCB), presents a revised methodology for classifying sectors based on their pollution potential. The classification aims to enhance environmental management and regulatory oversight by classifying sectors into red, orange, green, white, and blue categories. The report covers in detail about the genesis of

classification, need for the revision of 2016 methodology, scoring methodology for calculation of cumulative PI, etc.

The report also outlines guidelines for implementing the classification system. The classification may be used for consent management, inspection frequency, siting criteria, cluster development, pollution control plans, levying environmental compensation, promoting progressive environmental management, etc.

\*\*\*\*\*

**LIST OF ABBREVIATION**

CBG: Compressed Biogas

CNG: Compressed Natural Gas

CPI: Cumulative Pollution Index

CPCB: Central Pollution Control Board

CTE: Consent to Establishment

CTO: Consent to Operate

EC: Environment Compensation

ETP: Effluent Treatment Plant

EES: Essential Environmental Services

Gen-Set: Generator Set

HAPs: Hazardous Air Pollutants

HCFs: Health Care Facilities

HW: Hazardous Waste

MoEF&CC: Ministry of Environment, Forest & Climate Change

LNG: Liquefied Natural Gas

LPG: Liquefied Petroleum Gas

NGT: National Green Tribunal

NOC: No Objection Certificate

OCEMS: Online Continuous Effluent/Emission Monitoring System

PCC: Pollution Control Committee

PM: Particulate Matter

PI: Pollution Index

PI<sub>A</sub>: Air pollutant score

PI<sub>H</sub>: Waste pollutant score

PI<sub>w</sub>: Water pollutant score

PNG: Piped Natural Gas

SPCB: State Pollution Control Board

TTZ: Taz Trapezium Zone

VOCs: Volatile Organic Compounds

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## Genesis and Journey of Classification

### 1.1 Introduction

The notifications issued by the Ministry of Environment and Forest during 1989 for Doon Valley, Uttarakhand introduced the concept of classification of industries as red, orange, and green categories. The purpose of this classification was to facilitate decisions related to location of these industries. The criteria for classification of industries was primarily based on quantity of industrial effluent, quantity of fuel/coal, and the number of employees, and amount of waste generated. The notification included list of 129 sectors, classified under red (45), orange (35), and green (39) categories. The criteria used for Doon Valley Notification, 1989 is summarized in the **Figure I**.

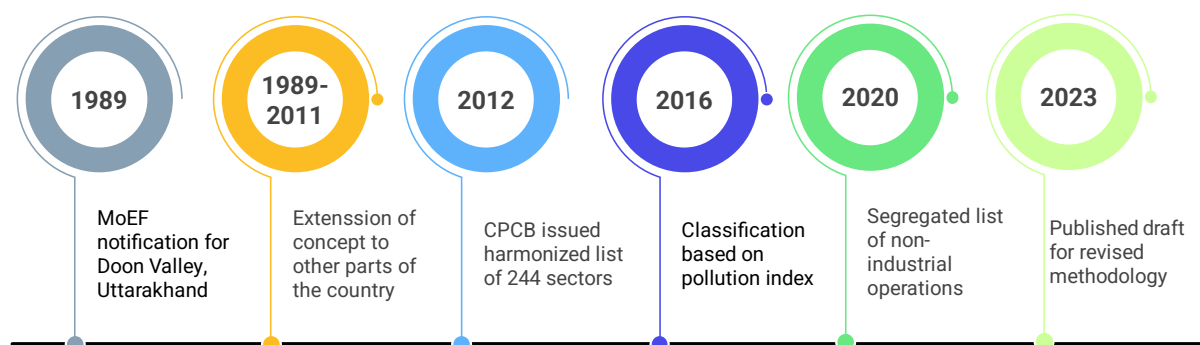
| Green  | Orange  | Red   |
|--|---|---|
| <b>Permitted</b> <ul style="list-style-type: none"> <li>No discharge of industrial effluent</li> <li>Non-Obnoxious &amp; non-hazardous industries</li> <li>Employees up to 100</li> <li>Process does not involve- tanning, dyeing, pickling, pulping, etc.</li> <li>E.g. Toys, ice cream, candles, carpet weaving, etc.</li> </ul> | <b>Permitted after MoEF approval</b> <ul style="list-style-type: none"> <li>Liquid effluent up to 500 KLD which can be controlled with suitable proven technology</li> <li>Coal/fuel up to 24 TPD</li> <li>Employees up to 500</li> <li>E.g. Ceramics, tyres, soft-drinks, wire drawing, instant tea/coffee, petroleum storage, etc.</li> </ul> | <b>Not Permitted</b> <ul style="list-style-type: none"> <li>Liquid effluent &gt; 500 KLD which can not be controlled with suitable technology</li> <li>Coal/fuel &gt; 24 TPD</li> <li>Employees &gt; 500</li> <li>E.g. Cement, refinery, sugar, explosives, acid &amp; their salts, power plants fertilizers, etc.</li> </ul> |

**Figure I: Criteria for classification of industries in Doon Valley Notification, 1989**

Subsequently, the application of this concept was extended to other parts of the country not only for the purpose of location of industries, but also for the purpose of consent management and formulation of norms related to surveillance/inspection of industries. As the State Pollution Control Boards (SPCBs) and Pollution Control Committees (PCCs) were following different

categorization of industries, to maintain the uniformity across the country, during 2012, CPCB issued a list of 244 sectors, classified under red (85), orange (73) and green (86) categories.

In order to harmonize the criteria for categorization, during the year 2016, CPCB developed the scoring methodology to classify the industries based on the Pollution Index (PI) which was a function of water pollution, air pollution and hazardous waste generation. Based on this methodology, CPCB has classified 257 sectors under red (63), orange (91), green (65) and white (38) categories and directed SPCBs/PCCs to adopt the same. During 2016, CPCB introduced white category as a new category for such sectors which are “practically non-polluting”. SPCBs/PCCs were also empowered to categorize any new/left-out sector at their own level, following the methodology prescribed by CPCB. Additionally, during 2020, CPCB also segregated the list of non-industrial operations/facilities. The overall journey of classification may be understood with the help of milestone chart shown in **Figure II**.



**Figure II: Genesis and journey of classification of sectors**

The concept of categorization is based on the “Precautionary Principle”, which focuses on potential of industries to pollute the environment. The purpose of categorization is to ensure that the industry is established in a manner consistent with the environmental objectives and to prompt industrial sectors to adopt cleaner technologies, ultimately resulting in generation of minimum pollutants.

\*\*\*\*\*

# 2

## Modified Methodology for Classification

### 2.1 Need and scope for revision of methodology

Based on the experience gained over the years, a need was felt to revisit the 2016 methodology for classification of sectors considering following scope of improvement:

#### i. Assessment of Pollution Index:

The category of any industrial sector depends on the Pollution Index (PI), which comprises of scores of three pollutant groups i.e., air pollution, water pollution and hazardous waste. The water and air pollutants were each assigned a weight of 40%. However, the hazardous waste generation was given 20% weightage in pollution index.

As per the classification methodology of 2016, in case of absence of any pollutant groups, pollution index was normalized to 100. As a result, different formulas were required to compute pollution index.

Further, the normalization method has certain limitations while comparing pollution potential among sectors having scores for all three pollutant groups verses score only for any one/two pollutant group(s). Moreover, it was also observed that in some sectors normalization involved subjectivity based on perception.

#### ii. Size of operations of industrial activities:

It was observed that, there was less variation in PI score of industry based on size of operation in same sector. Limited variables/slabs were considered for the quantity of wastewater discharge and fuel consumption. It was also observed that adequate weightage in the considered variables/slabs to account the variation in size of operations of industrial activities need to introduce.



### **iii. Consideration to segregated industrial activities:**

Although there were differences in pollution potential of integrated and standalone units of a particular sector, the classification methodology (2016) classifies the integrated or standalone units in the same sector. For example, standalone cement grinding units will have less pollution potential than integrated cement plants, but both were classified under red category.

### **iv. Consideration of type of fuel used:**

In industrial operations requiring fuels, the amount of emissions is governed by many factors such as the type of fuel and its calorific value, combustion efficiency, emission factors, etc. Use of biomass and cleaner gaseous fuels such as Piped Natural Gas (PNG), Liquefied Petroleum Gas (LPG), Compressed Natural Gas (CNG), bio-CNG etc. have increased significantly in recent years. It was observed that adequate weightage based on type of fuel used is required.

### **v. Separate scoring for sewage and trade effluent:**

It is desirable to have separate wastewater scoring criteria for the sectors generating trade effluent and sewage effluent, as characteristics, treatment method and impact are different for trade effluent generated from industrial sectors and sewage effluent generated from infrastructure & development sectors.

### **vi. Motivation to industries for progressive environmental management:**

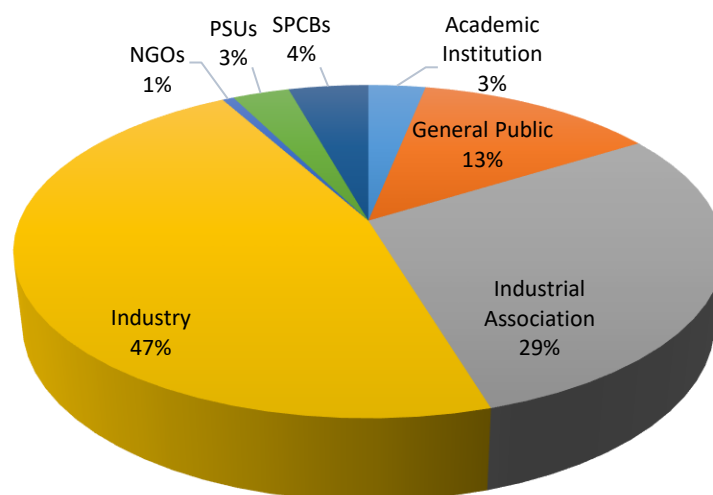
In the previous classification regime, there was no effective provision for change in category of industries based on the variation in pollution potential of a sector, even if the industries adopt cleaner technologies or switch over to cleaner raw material/cleaner fuel etc., resulting into reduction in pollution index.

## **2.2 Modified methodology for classification of sectors**

Considering the scope of revision, CPCB prepared a draft report on “Classification of Industrial Sectors into Red, Orange, Green and White Categories: A Tool for Progressive Environmental Management”. As per the draft report, a revised methodology for the classification is proposed which incorporates, water pollutant score, air pollutant score and waste generation score, based on the pollution potential of a sector on the environment. Scores out of 100 were given to each three pollutant groups and formula for calculating cumulative score based on the impact pollutant is devised. These scores are used for computation of pollution index for deciding the

category of industrial sector. The cut-offs for deciding the category were based on the quartiles of pollution indices, pollution potential of sectors, etc. The draft report was placed on CPCB website in July 2023, for comments/feedback from stakeholders.

CPCB received 161 representations, comprising more than 700 comments from various State Pollution Control Boards, research and technical institutions, industrial associations, NGOs, individual industries, and the public. The stakeholder-wise representations are shown with the help of pie-chart in **Figure III**.



**Figure III: Stakeholder-wise representations received**

Subsequently, CPCB constituted a committee to critically examine and analyse the comments and to make recommendations for suitable incorporation in the final methodology and classification. After incorporating the feedback received from stakeholders, the Committee has finalized the basic methodology which can be used as a yardstick for classification of the sectors into Red, Orange, Green and White Categories.

Further, based on the stakeholders' comments, a need was felt to introduce a separate "blue category" for Essential Environmental Services (ESS) required for management of waste generated from domestic/household activities and, an incentive mechanism to promote units in a particular sector, taking measures resulting into better environmental performance. An addendum was prepared, shared and presented to all SPCBs/PCCs. The addendum was also placed in the CPCB Website on 11.07.2024 for inputs/comments. Till last date (i.e. 11.08.2024) 09 representations were received in the addendum. All representations were examined, and classification based on revised methodology is finalised.



It is worth to mention that to safeguard the environment, following the fundamental principle of classification i.e., “Precautionary Principle”, scope is always available for application of mind and collective wisdom. As per the precautionary principle, when human activities may lead to morally unacceptable harm that is scientifically plausible but uncertain, actions shall be taken to avoid or diminish that harm. Therefore, variation from methodology is possible in case of projects having high chances of damage to the environment/eco-system such as river mining, etc. or having associated accidental risk such as major accident hazards installations wherein risk is associated with industrial activities having potential in terms of operation or process, manufacturing, transportation, and storage of one or more hazardous chemicals as prescribed by the Manufacture, Storage, and Import of Hazardous Chemical Rules, 1989.

Considering the above issues, the classification methodology was modified based on the potential of three pollutant groups, namely, water pollutant, air pollutant and waste pollutant (which are hazardous/toxic/infectious/bulk in nature), which have been given scores out of 100, each. Slabs are assigned for selection of pollutant groups respectively for water, air, and waste. Score can be decided based on dominant pollutants in the pollutant groups and quantity as detailed in Table-I, Table-II and Table-III. These scores are used for computation of pollution index for deciding the category of sector. The scoring methodology is based on the pollution potential during generation and not at the end of pipe/ after treatment considering the fact that all pollutants need to be treated and disposed as per the provisions/rules notified under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981 and the Environment (Protection) Act, 1986 and as amended.

The details of scoring criteria for  $PI_w$  for “water pollutant,”  $PI_A$  for “air pollutant” and  $PI_H$  for “waste generating sector” are as follows:

### 2.2.1 Scoring criteria for Water Pollutant “ $PI_w$ ”

Water pollution score consider the potential water pollution load from any sector in terms of characteristics and quantity of untreated trade effluent (wastewater). The “trade effluent” includes any liquid, gaseous or solid substance which is discharged from any premises used for carrying on any [industry, operation or process, or treatment and disposal system], other than domestic sewage.

The water pollutant score ( $PI_w$ ) is the addition of three sub-scores which are based on organic content in terms of oxygen demand of wastewater (W1), potential of other pollutants (W2) and



quantum of wastewater (W3). The weightages of W1, W2 and W3 in the water pollution score are 35%, 30% and 35%, respectively.

Proportionate higher scores are assigned to the sectors generating trade effluent of high BOD and/or high COD, heavy metals/toxic compounds, and large volume of wastewater. The scores are assigned considering the potential for causing damage to the environment. It may be noted that for sectors generating industrial effluent, dominant quantity of trade effluent is considered in score W3 (W3-1 to W3-5). Whereas, for sectors generating huge volume of sewage effluent such as railway stations, STPs, residential building projects, airports etc., the separate scores W3 (W3-6 to W3-10) are assigned. The term used, “Sewage effluent” means effluent from any sewerage system or sewage disposal works and includes sullage from open drains. The scoring criteria for water polluting sectors are given in **Table-I**.

**Table I: Scoring Criteria for Water Polluting Sector**

| Water Pollutant Group  | Description  | Score |
|--|--|-------|
| <b>Score W1: Score based on the oxygen demand of wastewater</b><br>(Maximum of the following scores to be considered)    |  |       |
| W1-1   | BOD $\geq$ 5,000 mg/l or COD $\geq$ 10,000 mg/l  | 35    |
| W1-2   | 1000 $\leq$ BOD < 5,000 mg/l or 5000 $\leq$ COD < 10,000 mg/l  | 30    |
| W1-3   | 500 $\leq$ BOD < 1,000 mg/l or 1000 $\leq$ COD < 5,000 mg/l  | 25    |
| W1-4   | 100 $\leq$ BOD < 500 mg/l or 250 $\leq$ COD < 1,000 mg/l   | 20    |
| W1-5   | 10 $\leq$ BOD < 100 mg/l or 50 $\leq$ COD < 250 mg/l   | 10    |
| <b>Score W2: Score based on other pollutants in the wastewater</b><br>(Maximum of the following scores to be considered) |  |       |
| W2-1   | Pollutants like pesticides, heavy metals, and toxic compounds:<br><br><i>(Aluminium, Anionic detergents, Barium, Chloramines, Copper, Fluoride, Total residual chlorine, Iron, Manganese, Mineral oil, Phenolic compounds, Selenium, Silver, Sulphide, Cadmium, Cyanide, Lead, Zinc, Mercury, Tin, Vanadium, Antimony, Benzene, Benzo-a-pyrene, Molybdenum, Nickel, Phosphates, Polychlorinated biphenyls, Polynuclear aromatic hydrocarbons, Arsenic, Total/Hexavalent Chromium, Trichloroethane, Trichloroethylene, Adsorbable Organic Halogens (AOx), Pesticides compounds, Residual antibiotic, Radioactive materials, etc.)</i> | 30    |
| W2-2   | Pollutants like Nitrate Nitrogen, Nitrate, Ammonical Nitrogen, Total Kjeldahl Nitrogen (TKN), Oil & grease, pH < 5.5 or > 9  | 25    |
| W2-3   | Pollutants mainly in terms of inorganic dissolved solids and associated other impurities due to process e.g. wastewater generated from DM water rejects, boiler blowdowns, brine solution rejects, fresh-water RO rejects, etc.  | 20    |
| W2-4   | Pollutants mainly in terms of inorganic dissolved solids e.g. wastewater from cooling towers, cooling-re-circulation processes, etc.   | 15    |



| <b>Score W3: Score based on quantity of wastewater generated</b>   |                                       |    |
|--|---------------------------------------|----|
| <b>A. For sectors generating Industrial Trade effluent (Maximum score to be considered)</b>  |                                       |    |
| W3-1   | Wastewater $\geq$ 500 KLD             | 35 |
| W3-2   | 100 KLD $\leq$ Wastewater $<$ 500 KLD | 30 |
| W3-3   | 50 KLD $\leq$ Wastewater $<$ 100 KLD  | 25 |
| W3-4   | 10 KLD $\leq$ Wastewater $<$ 50 KLD   | 20 |
| W3-5   | Wastewater $<$ 10 KLD                 | 15 |
| <b>B. For sectors such as STPs, building projects, etc. generating/handling only high-volume Sewage (Maximum score to be considered)</b> |                                       |    |
| W3-6   | Sewage $\geq$ 5,000 KLD               | 35 |
| W3-7   | 2,000 KLD $\leq$ Sewage $<$ 5,000 KLD | 30 |
| W3-8   | 500 KLD $\leq$ Sewage $<$ 2,000 KLD   | 25 |
| W3-9   | 100 KLD $\leq$ Sewage $<$ 500 KLD     | 20 |
| W3-10  | Sewage $<$ 100 KLD                    | 15 |
| <b>Water Pollutant Score (PI<sub>w</sub>) = W1+W2+W3</b>   |                                       |    |

### 2.2.2 Scoring criteria for Air Pollutant “PI<sub>A</sub>”:

Air pollution score consider the potential air pollution load from any sector in terms of characteristics of emissions and its quantum/scale in terms of quantity of fuel. The air pollutant score is based on generation of emission. The “air pollutant” means any solid, liquid, or gaseous substance (including noise) present in the atmosphere in such concentration as may be or tend to be injurious to human beings or other living creatures or plants or property or environment.

The air pollution score (PI<sub>A</sub>) is the addition of three sub-scores which are based on the type of pollutants in emissions (A1), work zone emission/fugitive emissions & odour nuisance (A2), and fuel type & quantity (A3). The weightages of A1, A2 and A3 in air pollution score are 35%, 30% and 35%, respectively.

Proportionate higher scores are assigned to the sectors generating emissions with hazardous air pollutants, process-based fugitive emissions and using solid/liquid fuels, as such pollutants have higher potential to damage the environment.

The California Air Resources Board defines fugitive emissions as “Emissions not caught by a capture system which are often due to equipment leaks, evaporative processes and windblown disturbances.” The fugitive emissions from any process having acid mist, VOCs, etc. are given higher weightage (score A2=30) as compared to the fugitive emissions of inert material (score A2=25). Sectors having persistent foul odour issue, will get score A2=20. Sectors/units using solid/liquid fuel will get higher score-A3, compared to the sectors using cleaner gaseous fuel or electricity. The scoring criteria for air polluting sectors are given at **Table-II**.



Table II : Scoring criteria for air polluting sectors

| Air Pollutant Group  | Description  | Score |
|--|--|-------|
| <b>Score A1: Score based on Process emissions (point source)</b><br>(Maximum of the following scores to be considered)           |  |       |
| A1-1   | Hazardous Air Pollutants (HAPs) and heavy metals:<br><i>HAPs (Phosgene, Benzene, Benzo(α)pyrene, Butadiene, Toluene Di-isocyanate, Methylene-di-phenyl Di-isocyanate, Ethylene Oxide, Ethylene Di Chloride, Acrylonitrile, Propylene Oxide), Dioxins &amp; Furans, Asbestos, Polycyclic Aromatic Hydrocarbons (PAHs), HCN, Cd, Th, Hg, Sb, As, Pb, Co, Cr, Cu, Mn, Ni, V, etc.</i> | 35    |
| A1-2   | Halogens, acids, and pesticides-based pollutants:<br><i>H<sub>2</sub>S, HF, HBr, P<sub>2</sub>O<sub>5</sub> as H<sub>3</sub>PO<sub>4</sub>, NH<sub>3</sub>, TOC, Cl, HCl, SO<sub>3</sub>, CH<sub>3</sub>Cl, Total Fluoride, PM having pesticide compounds/other organic compounds, Acid mist, etc.</i>   | 30    |
| A1-3   | Pollutants due to combustion of fuel or due to process:<br><i>PM, CO<sub>2</sub>, CO, NO<sub>x</sub>, SO<sub>2</sub>, etc.</i>   | 25    |
| A1-4   | Volatile Organic Compounds (VOCs):<br><i>Ethyl benzene, Styrene, Toluene, Xylene, Aromatics, Propylene Glycol, Ethylene Glycol, etc.</i>   | 20    |
| <b>Score A2: Score based on fugitive emissions and odour nuisance</b><br>(Maximum of the following scores to be considered)      |  |       |
| A2-1   | Fugitive emissions of Particulate Matter (PM), acid mist, VOCs, etc. from process  | 30    |
| A2-2   | Fugitive emissions of Particulate Matter (PM), acid mist, VOCs, etc. due to storage and handling, etc.   | 25    |
| A2-3   | Odour nuisance, including odour due to the use of binding gums, cements, adhesives, enamels etc.   | 20    |
| <b>Score A3: Score based on quantity of fuel</b><br>(Maximum of the following scores to be considered)                           |  |       |
| <b>Coal or liquid fuels</b>  |  |       |
| A3-1   | Fuel consumption $\geq$ 24 TPD   | 35    |
| A3-2   | 12 TPD $\leq$ Fuel consumption < 24 TPD  | 30    |
| A3-3   | Fuel consumption < 12 TPD  | 25    |
| <b>Biomass-based fuels</b>   |  |       |
| A3-4   | Fuel consumption $\geq$ 48 TPD   | 25    |
| A3-5   | 24 TPD $\leq$ Fuel consumption < 48 TPD  | 20    |
| A3-6   | Fuel consumption < 24 TPD  | 15    |
| <b>Cleaner/gaseous fuels, such as, PNG, CNG, LPG, Compressed Biogas (CBG), propane, butane etc.</b>                              |  |       |
| A3-7   | Fuel consumption $\geq$ 120 TPD  | 20    |
| A3-8   | 60 TPD $\leq$ Fuel consumption < 120 TPD   | 15    |
| A3-9   | Fuel consumption < 60 TPD  | 10    |
| A3-10  | Electricity  | 0     |
| <b>Air Pollutant Score (PI<sub>A</sub>) = A1+A2+A3</b>   |  |       |
| <b>Note:</b> In case, any sector/unit is using more than one type of fuel, the most polluting fuel category, will be considered. |  |       |



### 2.2.3 Scoring criteria for Industrial Waste Generating Sector “PI<sub>H</sub>”

Industrial waste generating sectors are considered based on the generation of hazardous waste/high volume low effect waste. As per the Hazardous and Other Wastes (Management & Trans-boundary Movement) Rules, 2016, the “hazardous waste” means any waste which by reason of characteristics such as physical, chemical, biological, reactive, toxic, flammable, explosive or corrosive, causes danger or is likely to cause danger to health or environment, whether alone or in contact with other wastes or substances and shall include waste as per the Schedule I, Schedule II and Schedule III of the rule. Further, scores are also assigned to the high-volume low effect wastes such as fly ash, phosphogypsum, red mud, jarosite, slags from pyro-metallurgical operations, mine tailings and ore beneficiation rejects.

The score for waste comprises of two sub-scores H1 and H2. The H1 score is based on the different type of hazardous waste which are generated during the process, and which required to be managed/disposed through common facility OR based on the generation of high-volume low effect waste/ HW like contaminated bags/ drums etc. The H2 score is based on the total quantum of waste generated.

The desirable disposal method such as incineration, landfill after treatment, landfill etc. signifies the potency of hazardous waste. In recent time, the utilization of hazardous waste as per the Rule-9 of Hazardous and Other Wastes (Management & Trans-boundary Movement) Rules, 2016, as alternate fuel and raw material in cement kilns, as recyclable hazardous waste etc. has increased. The classification is based on the pollution potential due to generation of such types of hazardous waste from any sector. The score for the quantum of hazardous waste is total potential of generation of such hazardous waste by any sector., Score H1: Based on potency of hazardous waste and score H2: Based on quantum of hazardous waste, are given weightage of 30% and 70%, respectively. Considering the higher risk due to amount of hazardous waste generated rather than its disposal method, more weightage is given to the quantity. Overall waste generation score in case of waste generating sector will be  $PI_H = H1 + H2$ . The scoring criteria for hazardous waste generating sectors are given at **Table-III**.

A separate scoring criterion has been included for sectors generating bio-medical waste. Bio-medical waste means any waste, which is generated during the diagnosis, treatment or immunisation of human beings or animals or research activities pertaining thereto or in the production or testing of biological or in health camps, including the categories mentioned in Schedule-I appended to the Bio-Medical Waste Management Rules, 2016. As any Health Care



Facilities (HCFs) generates all types of bio-medical waste (red, yellow, blue, and white) and quantities of such wastes may vary considerably based on the type of facility/location of facility (rural/urban), and other such factors. Therefore, scoring based on number of beds in a healthcare facility is considered as sole criteria for assigning waste score (H: B-1 to B-7) as tabulated in **Table-III**.

Least score of 25 is given to non-bedded healthcare facilities and maximum score of 100 is given to facilities having more than 1,000 beds. Overall waste generation score in case of bio-medical waste generating sector will be  $PI_H$ .

**Table III: Scoring criteria for waste generating Sectors**

| Waste Pollutant Group  | Description  | Score |
|--|--|-------|
| <b>A. Score for sectors generating hazardous waste</b>   |  |       |
| <b>Score H1: Score based on the hazardous waste management/disposal method.</b><br>(Maximum of the following scores to be considered)            |  |       |
| H1-1   | Hazardous wastes which are flammable, ignitable, corrosive, oxidizing toxic, etc. and requiring disposal through incineration  | 30    |
| H1-2   | Hazardous wastes which are reactive, capable of yielding another material post disposal, etc. and requiring disposal in secured landfill after stabilization/treatment | 25    |
| H1-3   | Hazardous wastes which are requiring direct disposal in secured landfill without stabilization   | 20    |
| H1-4   | High volume and low effect wastes, contaminated bags/ drums/ containers etc.   | 10    |
| <b>Score H2: Score based on quantity of hazardous waste generation.</b><br>(Maximum of the following scores to be considered)                    |  |       |
| H2-1   | Hazardous Waste $\geq 5000$ TPA  | 70    |
| H2-2   | $1000 \text{ TPA} \leq \text{Hazardous Waste} < 5000 \text{ TPA}$  | 50    |
| H2-3   | $200 \text{ TPA} \leq \text{Hazardous Waste} < 1000 \text{ TPA}$   | 30    |
| H2-4   | $10 \text{ TPA} \leq \text{Hazardous Waste} < 200 \text{ TPA}$   | 20    |
| H2-5   | Hazardous Waste $< 10$ TPA   | 10    |
| <b>B. Scores for the sectors generating bio-medical waste</b>  |  |       |
| B-1  | No. of beds $\geq 1,000$   | 100   |
| B-2  | $500 \leq \text{No. of beds} < 1,000$  | 80    |
| B-3  | $200 \leq \text{No. of beds} < 500$  | 60    |
| B-4  | $50 \leq \text{No. of beds} < 200$   | 50    |
| B-5  | $10 \leq \text{No. of beds} < 50$  | 40    |
| B-6  | No. of beds $< 10$   | 30    |
| B-7  | Non-bedded facility  | 25    |
| <b>For sectors generating hazardous waste <math>PI_H = H1+H2</math></b><br><b>For sectors generating bio-medical waste <math>PI_H = B</math></b> |  |       |



### 2.3 Computation of Cumulative Pollution Index and criteria for deciding category of sector

In the revised methodology of classification (2025), all three pollutant scores due to water, air and industrial waste generation are taken into account while computing pollution index. The formula for computing cumulative pollution index (PI) is as follows:

$$PI = i_{max} + (100 - i_{max}) \left( \frac{i_2 + i_3}{200} \right)$$

Where,  $i_{max}$ , is the maximum score among Water ( $PI_W$ ), Air ( $PI_A$ ), and Waste ( $PI_H$ ) pollutant scores and  $i_2$  &  $i_3$  are the remaining pollutant scores.

The category of the sector will be decided based on the pollution index ranges given at **Table-IV**.

**Table IV: Ranges of Cumulative Pollution Index for different categories**

| Cumulative Pollution Index (PI) | Category of industrial sector |
|---------------------------------|-------------------------------|
| $PI \geq 80$                    | Red                           |
| $55 \leq PI < 80$               | Orange                        |
| $25 \leq PI < 55$               | Green                         |
| $PI < 25$                       | White                         |

The purpose of classification is to have uniform consent mechanism, defined routine monitoring frequency by concerned SPCB/PCC, environmental protection plans etc. Modified methodology also considers the variation in pollution potential due to various type of activities and operations in a particular sector.

The scores/pollution index/category of any two sectors may be same, however, comparing two different sectors based on the category or pollution index is not desirable as the cumulative PI is a function of air pollutant, water pollutant, and waste pollutant and the cumulative score is arithmetically relates the maximum score of one pollutant with the remaining other two pollutants. Hence, PI/category of sectors may be same but may have different impact on environment.



## **2.4 Blue Category Projects- Essential Environmental Services for management of environmental pollution arising from domestic/household activities**

Essential Environmental Services may be defined as those facilities which are essential to control, abate and mitigate pollution generated from Domestic and Industrial activities. Such Essential environment services for Industrial Activity includes CETP, CHWT/SDF, Effluent conveying system etc. and essential environment services for domestic activities includes STP, MSW etc. Both the type of EES plays a vital role in Environment Management. However, during the treatment of waste, some EES generates/handle hazardous waste/infectious waste. The EES which do not generate Hazardous Waste, and which otherwise have large littering potential can be categorised as Blue Category Projects. Further, there are past legal references wherein Hon'ble Apex court has also considered the importance and requirement of such Essential Environment Services.

Human settlements whether located in rural/urban/eco-sensitive area generate sewage, solid waste, and C&D waste, which are required to be managed to prevent adverse impact on environment and human health. Basic environment management facilities are required to be set-up to manage such waste which includes STP, C&D waste processing facility, MSW management facility like sanitary landfill, material recovery facility & waste processing units, bio-methanation, bio-composting, waste to energy, etc.

These facilities are basically essential environment services which play a vital role in protecting environment and human health. These facilities may also bring value addition by producing various by-products such as secondary raw material, compost, energy, etc. and promotes circular economy and sustainable development by converting waste into wealth. Moreover, these categories do not generate hazardous or infectious wastes.

As the role and importance of these facilities is different in nature as compared to other activities and industries in the sense that they are primarily set-up for prevention, control and abatement of soil, water and air pollution. It is more appropriate to have a separate colour category-Blue Category for essential environmental services facilities related to environmental pollution arising from domestic/household activities. These activities are required to meet all the prescribed environmental norms/rules notified from time to time and the pollution index for such Essential Environmental Services (EES) shall continue to be calculated as per the formula and consent to operate will be governed based on the pollution index. However, the



category of the EES will be termed “Blue Category sector” and as an incentive for the essential services, additional 2 years validity for consent to operate (as per PI) will be provided.

The list of EES facilities is given at [Annexure-II](#).

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## **Classification of Sectors as per Revised Methodology**

### **3.1 Types of sectors based on their activities**

The revised methodology of classification will be applicable to all industries which may have potential for generation of environmental pollutants. As per the Section 2(j) of the Industrial Disputes Act, 1947, “Industry” means any business, trade, undertaking, manufacture, or calling of employers and includes any calling, service, employment, handicraft or industrial occupation or avocation of workman”, however, based on type of operational activities, the industries are divided into following four sectors:

- i. Industrial Sectors
- ii. Essential Environmental Services (EES)
  - a. EES for Industrial Waste
  - b. EES for Domestic Waste (Blue Category Sector)
- iii. Service/Infrastructure Development Sectors
- iv. Others/Special Category Sectors

The sectors which are involved in production of goods, products, etc. are considered under “Industrial Sectors”. The sectors covered under “Essential Environmental Services (EES)” are those facilities which are essential to control, abate and mitigate pollution generated from Domestic and Industrial activities. These services are essential facilities which are required to reduce pollution load on the environment, such as sewage treatment plants, common bio-medical waste treatment facilities, construction & demolition waste processing plants, etc. Essential Environmental Services Sectors are sub classified as “EES for industrial waste” and “EES for domestic waste (Blue category sectors which do not handle or generate infectious or hazardous waste)”. On the other hand, sectors which carry out service-related activities such as infrastructure projects, railways, airports, hospitals, etc. are covered under “Service/infrastructure development sectors”.



“Other/special category sectors” include those projects which cannot be classified based on the scoring methodology of pollution index but require classification based on precautionary principle and considering the potential of ecological damage/ health and environment related risk, etc. Few such sectors are sand mining, hydel power plants, etc.

The revised methodology of classification, sub-categorises the main sector based on the usage of cleaner technology/cleaner production/cleaner fuel which has proven reduction in trade effluent generation, emissions, waste, etc., for better environmental management, resulting into overall reduction of pollution index compared to main sector. For example, if coffee seeds processing industries use eco-pulping technology, which generates less water pollution, the pollution index of the said sector gets reduced and category changes from orange to green. Similarly, variation in type/scale of activities in a particular sector is also considered for classification of sub-sectors.

The methodology and scores have been screened through stakeholder feedback/consultation and public opinion. Available standard literature, various documents and guidelines, inspection reports, etc. were also referred, while assessing the scores for water pollution, air pollution, and waste generation for classification of sectors. Based on the modified methodology, the list of sectors and sector specific sub-classification is given at [Annexure-I](#) to [Annexure-IV](#). Summary of classified sectors is given in **Table-V**.

**Table V: Number of sectors classified under different categories**

| Sl. No. | Type of sector                             | Total number of sectors/sub-sectors | Red        | Orange     | Green     | White     | Blue     |
|---------|--|-------------------------------------|------------|------------|-----------|-----------|----------|
| 1.      | Industrial Sectors                         | 359                                 | 107        | 120        | 81        | 51        | -        |
| 2.      | Essential Environmental Services (ESS)     |                                     |            |            |           |           |          |
| 2.a.    | ESS for domestic waste                     | 9                                   | -          | -          | -         | -         | 9        |
| 2.b.    | ESS for industrial waste                   | 9                                   | 9          | -          | -         | -         | -        |
| 3.      | Service/Infrastructure Development Sectors | 37                                  | 7          | 15         | 13        | 2         | -        |
| 4.      | Others/Special Category Sectors            | 5                                   | 2          | 2          | -         | 1         | -        |
|         | <b>Total</b>                               | <b>419</b>                          | <b>125</b> | <b>137</b> | <b>94</b> | <b>54</b> | <b>9</b> |



### 3.2. Usage of classification of sectors

The classification of sectors may be used for the following purposes:

- i. **Consent management:** SPCBs/PCCs may grant Consent to Operate (CTO) to red, orange, and green categories of industries for validity up to 5 years, 10 years, and 15 years, respectively as per existing provisions which would be later governed as per the provisions/guidelines under Jan Vishwas (Amendment of Provisions) Act, 2023/Water Act, as amended. The validity of blue category sectors will be 2 years more than the category based on PI.
- ii. **Inspection frequency:** SPCBs/PCCs may prioritize their environmental surveillance programs based on the categories of sectors. SPCBs/PCCs are required to ensure inspection of red, orange, and green category of industries at least once in six-months, one-year, and two-years, respectively. Common facilities and 17 categories of industries are to be inspected at least once in every three-months.
- iii. **Siting criteria:** The categorization may be used as a tool for deciding the location/siting of an industry in a particular location.
- iv. **Development of cluster:** The classification will help in planning of sector specific cluster, based on scoring of various pollutants and development of adequate environment management infrastructure facility, accordingly.
- v. **Sector specific plans for pollution control:** The plans for control of pollution may be prepared and implemented on priority for the sectors having higher pollution index and overall higher pollution load.
- vi. **Levying environmental compensation:** Pollution index may be used for determining and levying environmental compensation on industries violating the environmental norms.
- vii. **A tool for progressive environmental management:** Industrial units may adopt cleaner technologies, cleaner fuels, etc. which may result in reduction of pollution index, thus, moving to lower pollution potential category. It will provide incentives to industries in terms of less consent renewal fees, less environmental surveillance/compliance burden, more validity period for consents/authorizations, etc.

### 3.3 Classification of left-out/new sectors

The revised methodology of classification (2025) and list of sectors classified by CPCB is required to be adopted and implemented by all SPCBs/PCCs. In case of any new or left-out



sector, the SPCB/PCC may categorize the sector at its own level. For this purpose, a committee headed by the Member Secretary, SPCB/PCC and comprising of at least two senior cadre engineers/scientists of the SPCB/PCC (as nominated by the Member secretary of the concerned SPCB/PCC) may be constituted to examine the matter and classify the sector in accordance with the methodology prescribed by CPCB. The State Level Committee may also co-opt subject experts, industrial association representative, etc., as member, as per requirement. CPCB has also developed a tool to assess the Cumulative Pollution Index and category of any sector, which is available on CPCB website (<https://cpcb.nic.in/categorization-of-industrial-sectors/>).

In addition, all SPCBs/PCCs are required to submit list of all such sector classified under white category to CPCB in the prescribed format (**Annexure-V**), for notification as per provisions of Jan Vishwas (Amendment of Provisions) Act, 2023.

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## **Incentives to unit in a sector for adopting measures resulting to better environmental performance**

A methodology has been strategized to provide incentives to the unit in a sector which are dedicated to reduce environmental impacts from their operations/process. The objective can be achieved by 100% treatment and reuse of wastewater generated, having complete dependency on cleaner fuel alternatives (such as PNG, LPG, compressed biogas, propane, butane, electricity etc. for meeting energy requirement), implementation & achievements of targets of sector-specific charters of CPCB/SPCB for environmental management, EPR obligations and use of cleaner process/cleaner technology to eliminate generation of toxic/hazardous pollutants.

The units fulfilling the following eligibility criteria may submit their formal proposal to the concerned SPCB/PCC for consideration:

### **4.1 Eligibility Criteria**

- The unit should have completed at least one year of completion of production/operations with demonstrated, verifiable steps and submitted audit report from institute of repute for considering the unit for the purpose by concerned SPCB/PCC. To facilitate verification, the unit must have properly maintained logbooks/bills for production, electricity consumption, fuel, water consumption, wastewater treatment and use of treated wastewater.
- The unit should be located in conforming area with applicable Environment Clearance, Consent to Establishment (CTE) and Consent to Operate (CTO) and hazardous/bio-medical waste authorization from SPCB/PCC.
- Unit should comply with all the norms/conditions stipulated under EC, CTO and Guidelines/Rules issued by CPCB.



- In case, unit using ground water resource, it should have valid permission/NOC and also required to install electronic flowmeter.
- No penalty or legal obligation is imposed/pending against unit for violation of environmental norms. Records for last 5 years may be verified. In case establishment period of the unit is less than 5 years, the past records since the start of production may be verified.
- Unit should not be involved in any sort of accident/incident resulting into emission /discharge into the environment. Records for last 5 years may be verified.

All such units, interested in availing incentives are required to demonstrate and prove their initiatives to the Committee (to be constituted at the level of concerned SPCB/PCC), comprising of members as mentioned in **Table VI**.

**Table VI: Structure of Committee to evaluate the request of units adopting measures resulting in better environmental performance**

| Sl. No. | Members   | Role     |
|---------|---|----------|
| 1       | Member Secretary, SPCB/PCC  | Chairman |
| 2       | Subject expert from Indian Institute of Technologies (IITs) or National Institute of Technologies (NITs) or any other institute/university of repute. | Member   |
| 3       | Expert from CSIR institute/laboratories, having expertise in industrial process and pollution control technologies/ environmental management          | Member   |
| 4       | Two officials of concerned SPCB/PCC, as nominated by the Member Secretary, SPCB/PCC   | Member   |

#### 4.2. Evaluation Criteria

The committee shall scrutinize the proposals based on the eligibility criteria. The basis of evaluation will be- (i) Measures taken for treatment and reuse of wastewater to reduce freshwater consumption, (ii) Use of alternative cleaner fuel to reduce emissions, and (iii) Use of cleaner technology/ cleaner production which results in reduction in pollution/hazardous waste generation (iv) Recycling units identified for EPR obligations and has fulfilled all requirement including Environmentally Sound Management Facility for recycling.



The unit is required to demonstrate the successful implementation of measures by annual submission of third-party audit report (through institute of repute) regarding performance of environmental management measures. The Committee members may also inspect unit, collect samples, and get it analysed, check logbooks, electricity/water bills, examine system feasibility through mass-balances, ensure real-time submission of environment data to SPCB/PCC server, etc. The check and balances to examine the industry claims are summarized in **Table VII**.

**Table VII: Checks and balances to assess the adequacy of environment management measures**

| Criteria   | Checks and balances  |
|--|--|
| <b>I. Wastewater Management</b>  |  |
| Installation of wastewater recovery system resulting into treatment and 100% reuse of treated wastewater in industrial process.  | <ul style="list-style-type: none"> <li>• Unit must have adequate operational Effluent Treatment Plant (ETP). The freshwater requirement of the unit has shown proportionate reduction.</li> <li>• There should not be any flow/ponding of wastewater inside the premises or discharge outside from the premises. Further, there should not be any by-pass.</li> <li>• Electronic flowmeters and Pan-tilt-zoom (PTZ) camera should have been installed with connectivity for continuous transmission of data to SPCB/PCC and CPCB servers (as applicable).</li> <li>• Recirculation system should be clearly mapped and visible for inspection and flow meter should be installed at required locations with records.</li> <li>• Mass/water balance based on actual production need to be checked. The claim regarding reduction in freshwater consumption should have concurrency with the readings of flow meters, water bill, log-books, etc.</li> <li>• Treated wastewater should not be used for horticulture or agriculture purposes.</li> <li>• Sludge generated from treatment of wastewater should be managed properly as per the authorization issued by the concerned SPCB/PCC and timely submission of Form-IV as per the requirement of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.</li> </ul> |
| <b>II. Air Pollution Management</b>  |  |
| 100% fuel dependency on cleaner fuels, such as- Piped Natural Gas (PNG), Compressed Natural Gas (CNG), Liquefied Natural Gas (LNG) Liquefied Petroleum Gas (LPG), Compressed | <ul style="list-style-type: none"> <li>• No other fuel (coal, pet-coke, furnace oil, etc.) should be stored/used in the unit premises. Diesel for Gensets (as an auxiliary power source) may be allowed. Preference may be given to the units using gas based Gensets.</li> <li>• Adequate facility for stack monitoring (port holes, zig-zag ladder etc.) should be available with provision of OCEMS (as applicable).</li> </ul>   |



|   |  |
|---|--|
| Biogas (CBG), propane, butane, etc.   | <ul style="list-style-type: none"> <li>• Use of upgraded air pollution control devices with higher efficiency for the reduction of emissions.</li> <li>• Adoption of cleaner technology, advanced pollution control systems etc. to control fugitive/emissions</li> <li>• Use of alternate cleaner raw material for generation of less pollution.</li> <li>• Use of renewable energy as an alternate to conventional fuel/power should be considered.</li> </ul> |
| <b>III. Waste Management</b>  |  |
| The unit has adopted cleaner technology/ cleaner production which results in reduction in pollution/hazardous waste generation                      | <ul style="list-style-type: none"> <li>• Reduction in generation of pollution/waste due to adoption of cleaner technology/change in raw material etc.</li> <li>• Mass balance based on actual production need to be checked. There should be concurrency in generation of hazardous waste, utilization, disposal, etc. with respect to net reduction in generation.</li> </ul>   |
| <b>IV. EPR Targets (for recycling facilities)</b>   |  |
| Recycling units identified for EPR obligations and has fulfilled all requirement including Environmentally Sound Management Facility for recycling. | <ul style="list-style-type: none"> <li>• Complying with the requirement of EPR obligation identified by CPCB from time to time.</li> </ul>   |

### 4.3. Re-assessment of Pollution Index (PI)

The purpose of giving star category is to classify the unit in the sector as star performing units.

The category of the unit may be re-assessed as detailed below:

#### A. For Industries, Service/Infrastructure facilities and Essential Environmental Services Sectors for management of waste.

The pollution index of the units in any sector which have proven reduction in trade effluent generation and/or air pollution management and/or waste management measures, can be calculated based on submission of same with the supporting documents for considering the modified score based on the same methodology.

The revised cumulative pollution index (PI) will be calculated with modified air/water/waste scores as discussed in the methodology given in previous section. If revised, cumulative PI results to change in the category of unit in the sector, the nomenclature for revised category will be as per the **Table VIII**.

**Table VIII: Nomenclature for revised category**

| Change in category | Nomenclature of revised category |
|--------------------|----------------------------------|
| Red to Orange      | Red*                             |
| Orange to Green    | Orange*                          |
| Green to White     | Green*                           |

### **B. Essential Environmental Service Sectors for Domestic/Household Waste- “Blue Category Sectors”:**

Units under Blue Category are required to reduce their existing PI score by 25%, by meeting evaluation criteria/check and balances, as mentioned in **Table III** to qualify for change in category to Blue\*.

#### **4.4 Incentives to the units for better environmental management**

Units which have demonstrated the successful implementation of environmental management measures and verified by the Committee, shall be eligible for the incentives, as listed in the **Table IX**.

**Table IX: Incentives to units for better environmental performance**

| Category | Incentives   |
|----------|--|
| Red*     | <ul style="list-style-type: none"> <li>• CTO may be granted for the validity of max. 10 years.</li> <li>• Prescribed random environmental surveillance inspection frequency may be once a year, considering the change in category.</li> </ul>   |
| Orange*  | <ul style="list-style-type: none"> <li>• CTO may be granted for the validity of max. 15 years.</li> <li>• Prescribed random environmental surveillance inspection frequency may be once in two years, considering the change in category.</li> </ul>   |
| Green*   | <ul style="list-style-type: none"> <li>• CTO may be granted for the validity of max. 20 years.</li> <li>• Prescribed random environmental surveillance inspection frequency may be once in four years, considering the change in category and given incentives twice the original category.</li> </ul> |
| Blue*    | <ul style="list-style-type: none"> <li>• CTO may be granted with additional 3 years validity period.</li> <li>• Prescribed random environmental surveillance inspection frequency may be once in 3 months.</li> </ul>  |



In case of non-compliance(s) observed in future, the State Board can remove the star status and for calculation of EC, the PI of original category shall be considered.

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# 5

## Implementation pathway/guidelines

The revised methodology and classification of sectors will be implemented in prospective manner. For this purpose, following guidelines may be referred:

- i. All pending application for consideration of CTE/CTO and future such application shall be processed as per the revised methodology of classification. In case CTE granted before the revised classification, applicability of CTO will be as per new classification.
- ii. New classification will be applicable to existing units at the time of renewal of CTO or within one year from the date of directions issued by CPCB regarding implementation of revised classification, whichever is earlier. The annual fees or cumulative fees for the remaining period shall be as per the revised category.
- iii. SPCBs/PCCs may grant Consent to Operate (CTO) to units under red, orange, and green categories for maximum validity up to 5 years, 10 years, and 15 years, respectively as per existing provisions which would be later governed as per the provisions/guidelines under Jan Vishwas (Amendment of Provisions) Act, 2023/Water Act, as amended. SPCBs/PCCs may grant Consent to Operate (CTO) to units under Blue Category sectors with additional 2 years validity, considering their role as Essential Environmental Services for management of waste generated from domestic/household activities.
- iv. Requirement of intimation/consent for white category of industries, shall be governed as per the provisions/guidelines under Jan Vishwas (Amendment of Provisions) Act, 2023//Water Act, as amended.
- v. All sectors irrespective of category shall follow guidelines for pollution control, if any, issued by SPCB/PCC/CPCB time to time.



- vi. Siting of units shall be only in the conforming area as per the guidelines of CPCB/SPCB/PCC. Further, as per the Section 17(1)(n) of the Water Act, 1974 and the Section 17(1)(h) of the Air Act, 1981, SPCB/PCC may also frame policies/advisory with respect to the location of any industry/operations, the carrying on of which is likely to cause air/water pollution, considering the scale/type of industries and sensitivity of area. Siting of units in eco-sensitive area will be governed by their respective notifications.
- vii. The classification of sectors shall not be linked to sanction of loans/finance of bank proceedings.
- viii. In the matter of Taz Trapezium Zone (TTZ), for air pollution scores of 10 and 20 (as per 2016 methodology), equivalent scores of 30 and 60 (as per 2025 methodology), respectively, may be considered for sectoral guidelines/opinion from NEERI (Ref: Order dated 08.12.2021, in the matter of M.C. Mehta v/s Union of India, Writ Petition (Civil) No.13381/1984, before Hon'ble Supreme Court).
- ix. As per CPCB directions dated 12.12.2019, issued under Section 18(1)(b) of the Water Act, 1974 and the Air Act, 1981, SPCBs/PCCs are required to ensure inspection of red, orange, and green category of industries at least once in six-months, one-year, and two-years, respectively. Common waste treatment facilities and 17 categories of industries are to be inspected at least once in every three-months. (Ref: Order dated 05.11.2019, in the matter of Shailesh Singh v/s State of Haryana & Ors., OA No.639/2018, before Hon'ble National Green Tribunal, Principal Bench).
- x. The sectors which are classified under white or green category and if such sectors have installed Genset(s) of higher capacity which are classified under orange/green category, then such sector will be considered under higher category.
- xi. All Industrial units are encouraged to adopt measures such as cleaner technology/cleaner production, cleaner raw material, cleaner fuel etc., for better environmental management. If such measures result into overall reduction of pollution



index, request regarding change in category of such sectors/units may be made to concerned SPCB/PCC as detailed under Section 8 of this report.

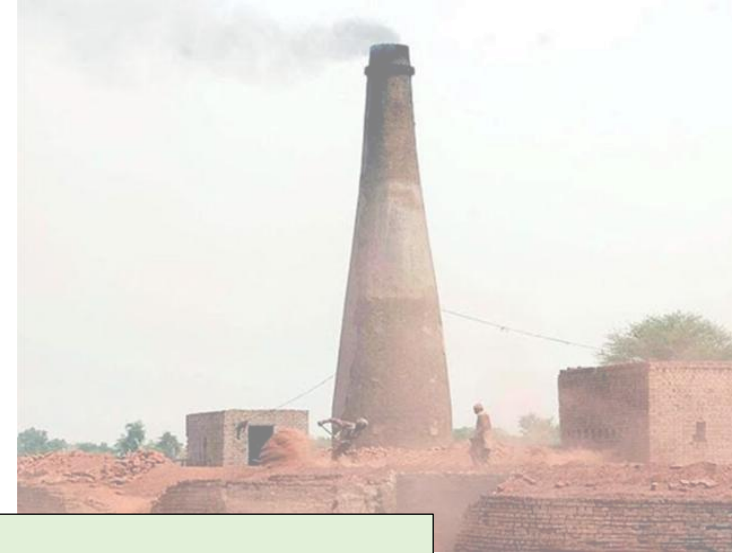
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**ANNEXURE-I**  
**(LIST OF INDUSTRIAL SECTORS CLASSIFIED UNDER RED, ORANGE, GREEN, AND WHITE CATEGORIES)**



**LIST OF INDUSTRIAL SECTORS**

| S. No.     | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks   | Concerned Division |
|------------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---|--------------------|
| ~A~        |   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |
| 1          | Manufacturing of <b>Automobiles</b> (integrated facilities)         | 20 | 30 | 25 | 75              | 0  | 25 | 0  | 25              | 25 | 20 | 45              | 83.8                 | Red      | i. Such types of plants are having either one or combinations of polluting activities viz. washing, metal surface finishing operations, pickling, plating, electro-plating, phosphating, painting, heat treatment etc.<br><br>ii. Some of such plants may outsource some /all of the polluting activities or may have stand-alone units. In such cases, after thorough inspection of such units by concerned SPCB, re-categorization of the industry shall be made accordingly. | IPC-V              |
| 2          | <b>Asbestos</b> and asbestos based industries                       | 10 | 30 | 25 | 65              | 35 | 30 | 30 | 95              | 25 | 30 | 55              | 98                   | Red      | Asbestos is carcinogenic and banned in many countries.  | IPC-II             |
| 3          | <b>Almirah</b> , Grill Manufacturing (Dry Mechanical Process)       | 0  | 0  | 0  | 0               | 0  | 30 | 0  | 30              | 0  | 0  | 0               | 30                   | Green    |   | IPC-V              |
| ~B~        |   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |
| <b>4.0</b> | <b>BAKERY, CONFECTIONERY AND SWEETS PRODUCTS</b>                    |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |
| 4.1        | Bakery, confectionery, sweets with production capacity $\geq$ 1 TPD | 25 | 0  | 20 | 45              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 61.3                 | Orange   |   | IPC-III            |

| S. No.     | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks | Concerned Division |
|------------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---------|--------------------|
| 4.2        | Bakery, confectionery, sweets with production capacity $\geq$ 1 TPD. (using cleaner/gaseous fuel) | 25 | 0  | 20 | 45              | 25 | 0  | 10 | 35              | 0  | 0  | 0               | 54.6                 | Green    |         | IPC-III            |
| <b>5.0</b> | <b>BRICK MANUFACTURING</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 5.1        | Brick kilns using coal as fuel  | 0  | 0  | 0  | 0               | 25 | 25 | 25 | 75              | 0  | 0  | 0               | 75                   | Orange   |         | IPC-V              |
| 5.2        | Brick kilns using biomass as fuel   | 0  | 0  | 0  | 0               | 25 | 25 | 15 | 65              | 0  | 0  | 0               | 65                   | Orange   |         | IPC-V              |
| 5.3        | Tunnel brick kilns (gas fired)  | 0  | 0  | 0  | 0               | 25 | 25 | 10 | 60              | 0  | 0  | 0               | 60                   | Orange   |         | IPC-V              |
| <b>6.0</b> | <b>MANUFACTURING OF AUTOCLAVED AERATED CONCRETE (AAC) BRICKS/BLOCKS.</b>                          |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 6.1        | AAC bricks/blocks manufacturing using coal as fuel (12 TPD and above)                             | 0  | 0  | 0  | 0               | 25 | 25 | 30 | 80              | 0  | 0  | 0               | 80                   | Red      |         | IPC-V              |
| 6.2        | AAC bricks/blocks manufacturing using coal as fuel (less than 12 TPD)                             | 0  | 0  | 0  | 0               | 25 | 25 | 25 | 75              | 0  | 0  | 0               | 75                   | Orange   |         | IPC-V              |
| 6.3        | AAC bricks/blocks manufacturing using biomass as fuel   | 0  | 0  | 0  | 0               | 25 | 25 | 20 | 70              | 0  | 0  | 0               | 70                   | Orange   |         | IPC-V              |
| 6.4        | AAC bricks/blocks manufacturing using gas as fuel   | 0  | 0  | 0  | 0               | 25 | 25 | 15 | 65              | 0  | 0  | 0               | 65                   | Orange   |         | IPC-V              |
| <b>7.0</b> | <b>FLY ASH BRICKS / BLOCK MANUFACTURING</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 7.1        | Fly ash bricks/ block manufacturing (with boiler)   | 0  | 0  | 0  | 0               | 25 | 25 | 25 | 75              | 0  | 0  | 0               | 75                   | Orange   |         | IPC-V              |
| 7.2        | Fly ash bricks/ block manufacturing (without boiler)  | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 25                   | Green    |         | IPC-V              |
| <b>8.0</b> | <b>MANUFACTURING OF NON-ALCOHOLIC BEVERAGES</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 8.1        | Wastewater generation $\geq$ 100 KLD  | 25 | 20 | 30 | 75              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 81.3                 | Red      |         | IPC-III            |
| 8.2        | Wastewater generation < 100 KLD   | 25 | 20 | 25 | 70              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 77.5                 | Orange   |         | IPC-III            |

| S. No.     | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks   | Concerned Division |  |
|------------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---|--------------------|--|
| <b>9.0</b> | <b>BATTERY MANUFACTURING</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |  |
| 9.1        | Lead-acid <b>Battery</b> manufacturing (excluding assembling and charging of lead acid <b>Battery</b> in micro-scale)         | 0  | 30 | 20 | <b>50</b>       | 35 | 30 | 25 | <b>90</b>       | 25 | 10 | <b>35</b>       | 94.3                 | Red      |   | IPC-V              |  |
| 9.2        | Dry cell <b>Battery</b> (excluding manufacturing of electrodes) and assembling & charging of acid lead battery on micro scale | 0  | 30 | 15 | <b>45</b>       | 25 | 25 | 10 | <b>60</b>       | 25 | 10 | <b>35</b>       | 76                   | Orange   |   | IPC-V              |  |
| 9.3        | <b>Battery</b> manufacturing without boiler (excluding lead acid battery)   | 0  | 0  | 0  | <b>0</b>        | 0  | 25 | 0  | <b>25</b>       | 25 | 10 | <b>35</b>       | 43.1                 | Green    |   | IPC-V              |  |
| 10         | <b>Briquette</b> manufacturing (coal/biomass/coke)  | 0  | 0  | 0  | <b>0</b>        | 0  | 30 | 0  | <b>30</b>       | 0  | 0  | <b>0</b>        | 30                   | Green    | The process involves mixing, mechanized compression and drying. | IPC-II             |  |
| 11         | Assembly of <b>Bicycles, Baby</b> carriages and other small non motorizing vehicles   | 0  | 0  | 0  | <b>0</b>        | 0  | 0  | 0  | <b>0</b>        | 0  | 0  | <b>0</b>        | 0                    | White    |   | IPC-V              |  |
| 12         | <b>Bailing</b> (hydraulic press) of waste papers  | 0  | 0  | 0  | <b>0</b>        | 0  | 0  | 0  | <b>0</b>        | 0  | 0  | <b>0</b>        | 0                    | White    |   | IPC-V              |  |
| 13         | <b>Bio fertilizer</b> and bio-pesticides without using inorganic chemicals  | 0  | 0  | 0  | <b>0</b>        | 0  | 20 | 0  | <b>20</b>       | 0  | 0  | <b>0</b>        | 20                   | White    |   | IPC-V              |  |
| 14         | <b>Block</b> making of printing without foundry (excluding wooden block making)   | 0  | 0  | 0  | <b>0</b>        | 0  | 0  | 0  | <b>0</b>        | 0  | 0  | <b>0</b>        | 0                    | White    |   | IPC-V              |  |

| S. No.      | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks | Concerned Division |
|-------------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---------|--------------------|
| 15          | Flavoured <b>Betel</b> nuts production/ grinding (completely dry mechanical operations)                            | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |         | IPC-V              |
| 16          | Manufacturing of shoe <b>Brush</b> and wire <b>Brush</b>   | 0  | 0  | 0  | 0               | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 20                   | White    |         | IPC-V              |
| ~C~         |  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| <b>17.0</b> | <b>MANUFACTURING OF INDUSTRIAL CARBON INCLUDING ELECTRODES AND GRAPHITE BLOCKS, ACTIVATED CARBON, CARBON BLACK</b> |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 17.1        | Carbon black manufacturing   | 20 | 15 | 20 | 55              | 25 | 30 | 30 | 85              | 30 | 20 | 50              | 92.9                 | Red      |         | IPC-I              |
| 17.2        | Industrial carbon including electrodes & graphite blocks and calcined pet coke                                     | 20 | 15 | 20 | 55              | 25 | 25 | 25 | 75              | 30 | 10 | 40              | 86.9                 | Red      |         | IPC-II             |
| 17.3        | Activated carbon manufacturing (with steam activation)   | 20 | 15 | 20 | 55              | 25 | 25 | 15 | 65              | 0  | 0  | 0               | 74.6                 | Orange   |         | IPC-V              |
| <b>18.0</b> | <b>INORGANIC CHEMICALS</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 18.1        | Basic inorganic chemicals and electro chemicals and its derivatives including manufacturing of acid                | 10 | 30 | 25 | 65              | 30 | 30 | 20 | 80              | 20 | 20 | 40              | 90.5                 | Red      |         | IPC-I              |
| 18.2        | Phosphorous and its compounds, including phosphorous rock processing   | 20 | 30 | 20 | 70              | 35 | 25 | 10 | 70              | 10 | 30 | 40              | 86.5                 | Red      |         | IPC-I              |
| 18.3        | Chlorates, per-chlorates & peroxides   | 20 | 30 | 20 | 70              | 30 | 20 | 25 | 75              | 20 | 20 | 40              | 88.8                 | Red      |         | IPC-I              |
| 18.4        | Chlorine, fluorine, bromine, iodine, and their compounds   | 10 | 30 | 25 | 65              | 35 | 20 | 10 | 65              | 20 | 20 | 40              | 83.4                 | Red      |         | IPC-I              |
| 19          | Coke oven plant, coal liquefaction, coal tar distillation and fuel gas-making                                      | 30 | 30 | 30 | 90              | 25 | 30 | 35 | 90              | 25 | 50 | 75              | 98.3                 | Red      |         | IPC-II             |
| <b>20.0</b> | <b>CEMENT PLANTS</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |

| S. No.      | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks | Concerned Division |
|-------------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---------|--------------------|
| 20.1        | With co-processing with CPP (Captive Power Plant)   | 20 | 25 | 35 | 80              | 35 | 30 | 35 | 100             | 10 | 50 | 60              | 100                  | Red      |         | IPC-II             |
| 20.2        | With co-processing without CPP  | 20 | 0  | 20 | 40              | 35 | 30 | 35 | 100             | 30 | 20 | 50              | 100                  | Red      |         | IPC-II             |
| 20.3        | Without co-processing with CPP  | 10 | 25 | 35 | 70              | 35 | 30 | 35 | 100             | 10 | 50 | 60              | 100                  | Red      |         | IPC-II             |
| 20.4        | Without co-processing without CPP   | 0  | 0  | 0  | 0               | 25 | 30 | 35 | 90              | 30 | 10 | 40              | 92                   | Red      |         | IPC-II             |
| 20.5        | Stand-alone grinding units with CPP   | 20 | 25 | 35 | 80              | 25 | 30 | 35 | 90              | 10 | 50 | 60              | 97                   | Red      |         | IPC-II             |
| 20.6        | Stand-alone grinding units without CPP  | 0  | 0  | 0  | 0               | 25 | 30 | 0  | 55              | 30 | 10 | 40              | 64                   | Orange   |         | IPC-II             |
| 20.7        | Bulk terminals for storage and packaging of cement  | 0  | 0  | 0  | 0               | 0  | 30 | 0  | 30              | 0  | 0  | 0               | 30                   | Green    |         | IPC-II             |
| <b>21.0</b> | <b>CHLOR ALKALI</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 21.1        | Chlor alkali  | 10 | 20 | 25 | 55              | 30 | 25 | 25 | 80              | 20 | 20 | 40              | 89.5                 | Red      |         | IPC-I              |
| 21.2        | Chlor alkali using washed salt  | 10 | 20 | 15 | 45              | 30 | 25 | 25 | 80              | 20 | 10 | 30              | 87.5                 | Red      |         | IPC-I              |
| 21.3        | Chlor alkali using cleaner/gaseous fuel   | 10 | 20 | 25 | 55              | 30 | 25 | 10 | 65              | 20 | 20 | 40              | 81.6                 | Red      |         | IPC-I              |
| 21.4        | Chlor alkali using cleaner/gaseous fuel and washed salt                                       | 10 | 20 | 15 | 45              | 30 | 25 | 10 | 65              | 20 | 10 | 30              | 78.1                 | Orange   |         | IPC-I              |
| 22          | Manufacturing of Compact disc Computer (CD/DVD) / cassette manufacturing / reel manufacturing | 0  | 15 | 15 | 30              | 30 | 0  | 0  | 30              | 20 | 10 | 30              | 51                   | Green    |         | IPC-V              |
| <b>23.0</b> | <b>MANUFACTURING OF COIR/COIR PITH AND COIR PRODUCTS</b>                                      |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 23.1        | Coir bleaching and dyeing/printing units  | 25 | 0  | 25 | 50              | 25 | 25 | 20 | 70              | 0  | 0  | 0               | 77.5                 | Orange   |         | IPC-V              |
| 23.2        | Coir fibre/pith processing units generating effluent  | 25 | 0  | 20 | 45              | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 51.9                 | Green    |         | IPC-V              |

| S. No.      | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks | Concerned Division |
|-------------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---------|--------------------|
| 23.3        | Coir fibre/pith processing and/or Manufacturing of coir products from coir (only dry process)                             | 0  | 0  | 0  | 0               | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 20                   | White    |         | IPC-V              |
| <b>24.0</b> | <b>CERAMICS</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 24.1        | Ceramics/ Glass /Earthen potteries and tile manufacturing using coal/oil fired kilns (fuel consumption: 12 TPD and above) | 0  | 0  | 0  | 0               | 25 | 25 | 30 | 80              | 0  | 0  | 0               | 80                   | Red      |         | IPC-V              |
| 24.2        | Ceramics/ Glass /Earthen potteries and tile manufacturing using coal/oil fired kilns (fuel consumption: less than 12 TPD) | 0  | 0  | 0  | 0               | 25 | 25 | 25 | 75              | 0  | 0  | 0               | 75                   | Orange   |         | IPC-V              |
| 24.3        | Ceramics/ Glass /Earthen potteries and tile manufacturing (using gas fired kilns)/tunnel kiln                             | 0  | 0  | 0  | 0               | 25 | 25 | 10 | 60              | 0  | 0  | 0               | 60                   | Orange   |         | IPC-V              |
| 24.4        | Ceramics/ Glass /Earthen potteries and tile manufacturing (using only electrical kiln)                                    | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 25                   | Green    |         | IPC-V              |
| 25          | <b>Coal Washeries</b>   | 20 | 25 | 30 | 75              | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 78.1                 | Orange   |         | IPC-II             |
| 26          | Liquid floor <b>Cleaner</b> , black phenyl, liquid soap, glycerol mono-stearate manufacturing                             | 25 | 25 | 15 | 65              | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 68.5                 | Orange   |         | IPC-V              |
| 27          | Phenyl/toilet <b>Cleaner</b> formulation and bottling   | 10 | 0  | 15 | 25              | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 32.5                 | Green    |         | IPC-V              |

| S. No.      | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks | Concerned Division |
|-------------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---------|--------------------|
| 28          | Cashew nut processing  | 20 | 0  | 15 | 35              | 25 | 20 | 15 | 60              | 0  | 0  | 0               | 67                   | Orange   |         | IPC-III            |
| <b>29.0</b> | <b>COFFEE SEEDS PROCESSING INDUSTRY</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 29.1        | Coffee seeds processing (wet process)  | 35 | 0  | 20 | 55              | 25 | 0  | 15 | 40              | 0  | 0  | 0               | 64                   | Orange   |         | IPC-III            |
| 29.2        | Coffee seeds processing with eco-pulper  | 20 | 0  | 15 | 35              | 25 | 0  | 15 | 40              | 0  | 0  | 0               | 50.5                 | Green    |         | IPC-III            |
| <b>30</b>   | <b>Manufacturing of Candy</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 30          | Manufacturing of Candy   | 10 | 0  | 15 | 25              | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 25                   | Green    |         | IPC-V              |
| <b>31</b>   | <b>Cardboard or corrugated box and paper products (excluding paper or pulp manufacturing and without using boilers)</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 31          | Cardboard or corrugated box and paper products (excluding paper or pulp manufacturing and without using boilers)   | 0  | 0  | 0  | 0               | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 20                   | White    |         | IPC-V              |
| <b>32</b>   | <b>Manufacturing of precast Cement products (without using asbestos/ boiler / steam curing) like pipe, pillar, jafri, well ring, block/tiles etc.(should be done in closed covered shed to control fugitive emissions)</b> |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 32          | Manufacturing of precast Cement products (without using asbestos/ boiler / steam curing) like pipe, pillar, jafri, well ring, block/tiles etc.(should be done in closed covered shed to control fugitive emissions)        | 0  | 0  | 15 | 15              | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 30.6                 | Green    |         | IPC-V              |
| <b>33</b>   | <b>Manufacturing of Ceramic Colour by mixing &amp; blending only (not using boiler and wastewater recycling process)</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 33          | Manufacturing of Ceramic Colour by mixing & blending only (not using boiler and wastewater recycling process)  | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 25                   | Green    |         | IPC-V              |
| <b>34.0</b> | <b>CHILLING PLANT, COLD STORAGE AND ICE-MAKING</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 34.1        | Chilling plant   | 20 | 15 | 15 | 50              | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 50                   | Green    |         | IPC-IV             |
| 34.2        | Cold storage   | 0  | 15 | 15 | 30              | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 30                   | Green    |         | IPC-V              |
| 34.3        | Ice Making   | 0  | 20 | 15 | 35              | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 35                   | Green    |         | IPC-V              |

| S. No.      | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks  | Concerned Division |
|-------------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--|--------------------|
| 35          | Decoration of <b>Ceramic Cups</b> and plates by electric furnace  | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 25                   | Green    |  | IPC-V              |
| 36          | Ready mix <b>Cement Concrete</b>  | 0  | 0  | 0  | 0               | 0  | 30 | 0  | 30              | 0  | 0  | 0               | 30                   | Green    |  | IPC-V              |
| 37          | <b>CO<sub>2</sub></b> recovery plant  | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 20 | 10 | 30              | 30                   | Green    | Exhausted molecular sieves are generated as hazardous waste.   | IPC-V              |
| 38          | Assembly of air <b>Coolers/Conditioners</b> , repairing and servicing   | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |  | IPC-V              |
| 39          | <b>Chalk</b> making from plaster of Paris (only casting without boilers etc. - sun drying / electrical oven)  | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |  | IPC-V              |
| 40          | Standalone manufacturing of <b>Concrete</b> admixtures up to 1000 MT per Month capacity by physical mixing (without boiler and reactor and no generation of wastewater) | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 10 | 10 | 20              | 20                   | White    | The sector may become green category if it generates wastewater. The unit needs to be re-classified as per the methodology in case the capacity exceeds 1000 MT per Month. | IPC-V              |
| 41          | Used <b>Cooking</b> oil (UCO) collection centers  | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |  | IPC-V              |
| ~D~         |   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| <b>42.0</b> | <b>DYES, DYE INTERMEDIATES AND PIGMENT PRODUCTIONS</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 42.1        | Dyes, Dye Intermediates and Pigments produced by chemical synthesis   | 35 | 30 | 25 | 90              | 30 | 20 | 25 | 75              | 30 | 20 | 50              | 96.3                 | Red      |  | IPC-I              |

| S. No.                                       | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks | Concerned Division |
|--|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---------|--------------------|
| 42.2   | Natural Dye and Pigments requiring acidic/ alkaline/ solvent extraction                  | 30 | 30 | 20 | 80              | 25 | 20 | 25 | 70              | 20 | 10 | 30              | 90                   | Red      |         | IPC-I              |
| 42.3   | Natural Dye and Pigments not require acidic/ alkaline/ solvent extraction                | 30 | 20 | 20 | 70              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 77.5                 | Orange   |         | IPC-I              |
| <b>43.0</b>                                  | <b>SYNTHETIC DETERGENT AND SOAPS</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 43.1   | Synthetic detergents and soaps (wastewater generation ≥ 100 KLD)                         | 20 | 20 | 30 | 70              | 25 | 0  | 25 | 50              | 25 | 10 | 35              | 82.8                 | Red      |         | IPC-I              |
| 43.2   | Synthetic detergents and soaps (wastewater generation < 100 KLD)                         | 20 | 20 | 25 | 65              | 25 | 0  | 25 | 50              | 25 | 10 | 35              | 79.9                 | Orange   |         | IPC-I              |
| 43.3   | Synthetic detergents and soaps (only formulation)  | 0  | 0  | 0  | 0               | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 50                   | Green    |         | IPC-I              |
| 43.4   | Soap manufacturing (handmade -without steam boiling / boiler)                            | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |         | IPC-V              |
| <b>DISTILLERIES AND FERMENTATION SECTORS</b> |  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| <b>44.0</b>                                  | <b>DISTILLERIES AND FERMENTATION INDUSTRIES</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 44.1   | Distillery (Molasses based)  | 35 | 25 | 35 | 95              | 25 | 25 | 35 | 85              | 0  | 0  | 0               | 97.1                 | Red      |         | IPC-III            |
| 44.2   | Distillery (Grain based)   | 35 | 25 | 30 | 90              | 25 | 25 | 25 | 75              | 0  | 0  | 0               | 93.8                 | Red      |         | IPC-III            |
| 44.3   | Distillery (Grain based) with Distiller's Dried Grains with Soluble (DDGS) as by-product | 25 | 25 | 20 | 70              | 25 | 25 | 25 | 75              | 0  | 0  | 0               | 83.8                 | Red      |         | IPC-III            |
| 44.4   | Standalone yeast manufacturing units   | 35 | 25 | 35 | 95              | 25 | 20 | 25 | 70              | 0  | 0  | 0               | 96.8                 | Red      |         | IPC-III            |
| 44.5   | Breweries and malteries industry (with fermentation)-Wastewater generation ≥ 100 KLD     | 30 | 15 | 30 | 75              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 81.3                 | Red      |         | IPC-III            |
| 44.6   | Breweries and malteries industry (with fermentation)-Wastewater generation < 100 KLD     | 30 | 15 | 25 | 70              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 77.5                 | Orange   |         | IPC-III            |

| S. No. | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks  | Concerned Division |
|--------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--|--------------------|
| 44.7   | Potable alcohol by blending, bottling of alcohol products             | 20 | 0  | 25 | 45              | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 45                   | Green    |  | IPC-III            |
| 45     | Diesel pump repairing and servicing (complete mechanical dry process) | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 10 | 10 | 20              | 20                   | White    |  | IPC-V              |
| ~E~    |   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 46     | Manufacturing of Explosives, detonators, fuses, etc.                  | 25 | 30 | 15 | 70              | 0  | 30 | 0  | 30              | 30 | 10 | 40              | 80.5                 | Red      | Explosives manufacture contribute to release of hazardous pollutants, including generation of other toxic chemicals. Accident/safety hazard is also associated with such sector during manufacturing and usages. | IPC-I              |
| 47     | Manufacturing of coated Electrode                                     | 0  | 15 | 15 | 30              | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 38.8                 | Green    | Process involves preparation of core wire / rod, preparation of dry mix, preparation of wet mix, application of coating by extrusion, baking of coated electrodes.   | IPC-V              |
| 48     | Emery powder (fine dust of sand) manufacturing                        | 0  | 0  | 0  | 0               | 0  | 30 | 0  | 30              | 0  | 0  | 0               | 30                   | Green    | Fugitive emissions from grinding operations.   | IPC-V              |
| 49     | Electric lamp (bulb) and CFL manufacturing by assembling only         | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |  | IPC-V              |
| 50     | Electrical and electronic item assembling (completely dry process)    | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |  | IPC-V              |

| S. No.      | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks  | Concerned Division |
|-------------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--|--------------------|
| 51          | Engineering and fabrication units (dry process without any heat treatment / metal surface finishing operations / painting) | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |  | IPC-V              |
| ~F~         |  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| <b>52.0</b> | <b>FIBRE GLASS (FIBRE REINFORCED PLASTIC) PRODUCTION</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 52.1        | Fibre glass (containing lead) production and processing (excluding moulding)   | 0  | 0  | 0  | 0               | 35 | 0  | 25 | 60              | 25 | 20 | 45              | 69                   | Orange   |  | IPC-V              |
| 52.2        | Fibre glass (without lead) production and processing (excluding moulding)  | 0  | 0  | 0  | 0               | 30 | 0  | 25 | 55              | 25 | 20 | 45              | 65.1                 | Orange   | The use of styrene in most methods of fibre glass production causes hazardous air pollution that is harmful to breathe at excessive levels.                    | IPC-V              |
| 53          | Manufacturing of Firecrackers including improved crackers/green crackers, etc.   | 0  | 0  | 0  | 0               | 35 | 30 | 0  | 65              | 30 | 10 | 40              | 72                   | Orange   | Various hazardous chemicals are used in the manufacturing process. Accident/safety hazard is also associated with such sector during manufacturing and usages. | IPC-V              |
| <b>54.0</b> | <b>SYNTHETIC FIBRES MANUFACTURING</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 54.1        | Synthetic fibres-PSF & PFY, generated from petrochemical   | 35 | 30 | 35 | 100             | 30 | 25 | 35 | 90              | 30 | 20 | 50              | 100                  | Red      |  | IPC-I              |
| 54.2        | Synthetic fibres including rayon, tyre cord, viscose filament yarn/staple fibre, acrylic fibres                            | 25 | 20 | 25 | 70              | 30 | 20 | 25 | 75              | 20 | 10 | 30              | 87.5                 | Red      |  | IPC-I              |
| 54.3        | Synthetic fibres including rayon, tyre cord, viscose filament yarn/staple fibre, acrylic fibres using cleaner/gaseous fuel | 25 | 20 | 25 | 70              | 30 | 20 | 10 | 60              | 20 | 10 | 30              | 83.5                 | Red      |  | IPC-I              |

| S. No.      | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks | Concerned Division |  |
|-------------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---------|--------------------|--|
| <b>55.0</b> | <b>FERTILIZERS PRODUCTION</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |  |
| 55.1        | Fertilizers (Urea)   | 10 | 30 | 35 | 75              | 30 | 30 | 20 | 80              | 20 | 30 | 50              | 92.5                 | Red      |         | IPC-I              |  |
| 55.2        | Fertilizers (Calcium Ammonium Nitrate/Ammonium Nitrate)  | 10 | 30 | 25 | 65              | 30 | 25 | 25 | 80              | 20 | 20 | 40              | 90.5                 | Red      |         | IPC-I              |  |
| 55.3        | Fertilizers (NPK)  | 10 | 30 | 25 | 65              | 30 | 25 | 25 | 80              | 20 | 20 | 40              | 90.5                 | Red      |         | IPC-I              |  |
| 55.4        | Fertilizers (Straight Phosphatic Fertilizers)  | 10 | 30 | 25 | 65              | 30 | 25 | 25 | 80              | 20 | 20 | 40              | 90.5                 | Red      |         | IPC-I              |  |
| 55.5        | Fertilizer (granulation /formulation / blending) generating wastewater through floor washings, cooling towers etc. | 10 | 30 | 15 | 55              | 30 | 30 | 0  | 60              | 10 | 10 | 20              | 75                   | Orange   |         | IPC-I              |  |
| 55.6        | Fertilizer (granulation /formulation / blending) not generating wastewater   | 0  | 0  | 0  | 0               | 30 | 30 | 0  | 60              | 10 | 10 | 20              | 64                   | Orange   |         | IPC-I              |  |
| <b>56.0</b> | <b>FOOD AND FOOD PROCESSING INCLUDING FRUITS AND VEGETABLE PROCESSING</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |  |
| 56.1        | Wastewater generation $\geq$ 10 KLD  | 25 | 0  | 25 | 50              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 62.5                 | Orange   |         | IPC-III            |  |
| 56.2        | Wastewater generation < 10 KLD (without boiler)  | 25 | 0  | 15 | 40              | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 40                   | Green    |         | IPC-III            |  |
| <b>57.0</b> | <b>FISH FEED, POULTRY FEED AND CATTLE FEED</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |  |
| 57.1        | Fish feed, poultry feed and cattle feed (with boiler)  | 0  | 20 | 15 | 35              | 25 | 25 | 25 | 75              | 0  | 0  | 0               | 79.4                 | Orange   |         | IPC-V              |  |
| 57.2        | Fish feed, poultry feed and cattle feed (without boiler)   | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 25                   | Green    |         | IPC-V              |  |
| 58          | Fish processing and packing (excluding chilling of fishes)   | 25 | 25 | 20 | 70              | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 73                   | Orange   |         | IPC-IV             |  |
| <b>59.0</b> | <b>MANUFACTURING OF MODULAR WOODEN FURNITURE</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |  |

| S. No.      | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks | Concerned Division |
|-------------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---------|--------------------|
| 59.1        | Modular wooden furniture from particle board, MDF, swan timber etc, Ceiling tiles/ partition board from saw dust, wood chips etc., and other agricultural waste using synthetic adhesive resin, wooden box making (With boiler)    | 0  | 0  | 0  | 0               | 25 | 25 | 10 | 60              | 0  | 0  | 0               | 60                   | Orange   |         | IPC-V              |
| 59.2        | Modular wooden furniture from particle board, MDF, swan timber etc, Ceiling tiles/ partition board from saw dust, wood chips etc., and other agricultural waste using synthetic adhesive resin, wooden box making (Without boiler) | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 25                   | Green    |         | IPC-V              |
| <b>60.0</b> | <b>CARPENTRY &amp; WOODEN FURNITURE MANUFACTURING</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 60.1        | Carpentry & wooden furniture manufacturing with spray painting (excluding saw mill) with the help of electrical (motorized) machines such as electrical wood planner, steel saw cutting circular blade, etc.                       | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 25                   | Green    |         | IPC-V              |
| 60.2        | Carpentry & wooden furniture manufacturing without spray painting (excluding saw mill) with the help of electrical (motorized) machines such as electrical wood planner, steel saw cutting circular blade, etc.                    | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |         | IPC-V              |

| S. No.      | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks  | Concerned Division |
|-------------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--|--------------------|
| 61          | Foam manufacturing   | 0  | 0  | 0  | 0               | 35 | 0  | 0  | 35              | 20 | 10 | 30              | 44.8                 | Green    | Emissions of VOCs and HAPs. Raw materials are polyurethane, latex etc. | IPC-V              |
| 62          | Flour mills (dry process)  | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 25                   | Green    | Separate classification for domestic flour mills may not require.      | IPC-V              |
| <b>63.0</b> | <b>STEEL FURNITURE INDUSTRY</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 63.1        | Steel furniture with spray painting  | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 25                   | Green    | Obnoxious gases from welding.  | IPC-V              |
| 63.2        | Steel furniture without spray painting   | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |  | IPC-V              |
| ~G~         |  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| <b>64.0</b> | <b>MANUFACTURING OF GLUE AND GELATIN</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 64.1        | Manufacturing of glue and gelatin using coal/liquid fuel   | 25 | 20 | 15 | 60              | 25 | 20 | 25 | 70              | 10 | 10 | 20              | 82                   | Red      |  | IPC-I              |
| 64.2        | Manufacturing of glue and gelatin by using biomass/cleaner fuel                                      | 25 | 20 | 15 | 60              | 25 | 20 | 15 | 60              | 10 | 10 | 20              | 76                   | Orange   |  | IPC-I              |
| <b>65.0</b> | <b>MANUFACTURING OF GLASS (INCLUDING PRINTING OR ETCHING OF GLASS SHEET USING HYDROFLUORIC ACID)</b> |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 65.1        | Manufacturing of glass (Oil/coal fired)  | 0  | 15 | 15 | 30              | 25 | 25 | 25 | 75              | 0  | 0  | 0               | 78.8                 | Orange   |  | IPC-V              |
| 65.2        | Manufacturing of glass (gas fired)   | 0  | 15 | 15 | 30              | 25 | 25 | 10 | 60              | 0  | 0  | 0               | 66                   | Orange   |  | IPC-V              |
| 66          | Producer Gas plant using conventional coal Gasification  | 20 | 25 | 15 | 60              | 25 | 0  | 25 | 50              | 30 | 10 | 40              | 78                   | Orange   |  | IPC-V              |

| S. No.      | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks   | Concerned Division |  |
|-------------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---|--------------------|--|
| <b>67.0</b> | <b>COMPRESSED BIOGAS (CBG)/BIO-CNG PLANTS</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |  |
| 67.1        | CBG plants based on Municipal Solid Waste (MSW) as feed  | 30 | 25 | 25 | 80              | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 82                   | Red      |   | UPC-II             |  |
| 67.2        | CBG plants based on process waste (industrial/ process liquid effluent & solid waste like press mud, organic sludge, molasses, etc.) as feed | 30 | 25 | 25 | 80              | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 82                   | Red      |   | IPC-III            |  |
| 67.3        | CBG plants based on crop residue (paddy straw /wheat straw /corn sweet sorghum/ Napier grass, etc.) as feed                                  | 30 | 25 | 20 | 75              | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 77.5                 | Orange   |   | IPC-III            |  |
| 67.4        | CBG plants based on animal waste (dairy farms, poultry farms, and other animal waste) as feed  | 30 | 25 | 20 | 75              | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 77.5                 | Orange   |   | IPC-III            |  |
| 67.5        | CBG plants producing Fermented Organic Manure (FOM) & Liquid Fermented Organic Manure (LFOM) as by-products                                  | 0  | 0  | 0  | 0               | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 20                   | White    | CBG plants producing FOM & LFOM as by-products in conformity with requirements of Gazette Notification No. 2051 dated 14.07.2020 & No. 1972 dated 01.06.2021, respectively, and utilizing entire FOM & LFOM as a fertilizer or manure on land and also not discharging any waste-water, to be considered under White category, subject to verification by SPCB on case-to-case basis. | IPC-III            |  |
| <b>68.0</b> | <b>STANDALONE PRODUCTION OF HYDROGEN AND/OR AMMONIA (WITHOUT CAPTIVE POWER PLANT USING FOSSIL FUEL)</b>                                      |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |  |

| S. No. | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks   | Concerned Division |
|--------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---|--------------------|
| 68.1   | Integrated unit for production of Ammonia through Hydrogen generated by pyrolysis/gasification                                  | 20 | 25 | 20 | 65              | 20 | 25 | 25 | 70              | 30 | 20 | 50              | 87.3                 | Red      | <p>i. Pyrolysis of biomass will generate syn gas and other condensable gases having hydrocarbons and other impurities.</p> <p>ii. Purification of gas will generate wastewater having high organic content and tarry residue as hazardous waste.</p> <p>iii. The process will generate fugitive emissions and due to pyrolysis operation.</p>   | IPC-I              |
| 68.2   | Integrated unit for production of ammonia through Hydrogen generated by electrolysis using renewable energy (capacity ≥ 15 TPD) | 10 | 25 | 35 | 70              | 0  | 20 | 0  | 20              | 30 | 20 | 50              | 80.5                 | Red      | <p>i. Ammonia manufacturing process (Haber process) and associated safety hazards remain same as per the chemical properties of ammonia.</p> <p>ii. Wastewater generation due to the production of hydrogen through electrolysis and condensation of ammonia, other scrubbed liquid etc.</p> <p>iii. Generation of ETP sludge, exhausted membranes, molecular sieves, spent catalysts, etc. as hazardous waste.</p> | IPC-I              |

| S. No. | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks  | Concerned Division |
|--------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--|--------------------|
| 68.3   | Integrated unit for production of Ammonia through hydrogen generated by electrolysis using renewable energy (Capacity < 15 TPD) | 10 | 25 | 20 | 55              | 0  | 20 | 0  | 20              | 30 | 10 | 40              | 68.5                 | Orange   | <p>i. Ammonia manufacturing process (Haber process) and associated safety hazards remains same as per the chemical properties of ammonia.</p> <p>ii. Wastewater generation due to production of hydrogen through electrolysis and condensation of ammonia, other scrubbed liquid etc.</p> <p>iii. Generation of ETP sludge, exhausted membranes, molecular sieves, spent catalysts, etc. as hazardous waste.</p> | IPC-I              |
| 68.4   | Hydrogen production through pyrolysis/gasification  | 20 | 25 | 20 | 65              | 20 | 25 | 25 | 70              | 30 | 10 | 40              | 85.8                 | Red      | <p>i. Pyrolysis of biomass will generate syn gas and other condensable gases having hydrocarbons and other impurities.</p> <p>ii. Purification of gas will generate wastewater having high organic content and tarry residue as hazardous waste.</p> <p>iii. The process will generate fugitive emissions and due to pyrolysis operation.</p>  | IPC-I              |

| S. No. | Sector   | W1 | W2 | W3 | PI <sub>W</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks  | Concerned Division |
|--------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--|--------------------|
| 68.5   | Hydrogen production through electrolysis using raw/seawater and renewable energy (capacity ≥ 2.5 TPD)  | 0  | 20 | 35 | 55              | 0  | 0  | 0  | 0               | 30 | 10 | 40              | 64.0                 | Orange   | <p>i. Type of electrolyzers may include Alkaline Water Electrolyser (AWE), Proton Exchange Membrane (PEM), Solid Oxide Electrolyser Cell (SOEC) and Anion Exchange Membrane (AEM), etc.</p> <p>ii. Generation of DM reject, cooling tower blowdown, draining of alkaline/electrolyser water during maintenance, etc. as wastewater.</p> <p>iii. Generation of ETP sludge, exhausted membranes, molecular sieves, spent catalysts, etc. as hazardous waste.</p> | IPC-I              |
| 68.6   | Hydrogen production through electrolysis using raw/sea water and renewable energy (capacity < 2.5 TPD) | 0  | 20 | 20 | 40              | 0  | 0  | 0  | 0               | 30 | 10 | 40              | 52.0                 | Green    | <p>i. Type of electrolyzers may include Alkaline Water Electrolyser (AWE), Proton Exchange Membrane (PEM), Solid Oxide Electrolyser Cell (SOEC) and Anion Exchange Membrane (AEM), etc.</p> <p>ii. Generation of DM reject, cooling tower blowdown, draining of alkaline/electrolyser water during maintenance, etc. as wastewater.</p> <p>iii. Generation of ETP sludge, exhausted membranes, molecular sieves, spent catalysts, etc. as hazardous waste.</p> | IPC-I              |
| 68.7   | Hydrogen production through electrolysis (using  | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 10 | 10              | 10.0                 | White    | <p>i. DM water as feed water for electrolyser and cooling/chilling</p>   | IPC-I              |

| S. No. | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks  | Concerned Division |
|--------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--|--------------------|
|        | renewable energy) on BOO/BOOT/BOT, mode etc., located in the premises of end user industry and directly using de-mineralized water & other utilities (cooling tower, ETP, etc.) sourced from end user industry |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          | water requirement to be met by the end user industry.<br><br>ii. Wastewater and other waste generated during O&M shall also be managed by the end user industry. |                    |
| 69     | <b>Glue</b> from starch (physical mixing) with Gas/ electrically operated oven /boiler.  | 0  | 0  | 0  | 0               | 25 | 0  | 10 | 35              | 0  | 0  | 0               | 35                   | Green    |  | IPC-V              |
| 70     | <b>Gold</b> and silver smithy (purification with acid smelting operation and sulphuric acid polishing operation) (using less or equal to 1 litre of sulphuric acid/ nitric acid per month)                     | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 25                   | Green    |  | IPC-V              |
| 71     | Compressed oxygen <b>Gas</b> from crude liquid oxygen (without use of any solvents and by maintaining pressure & temperature only for separation of other <b>Gases</b> )                                       | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |  | IPC-V              |
| 72     | <b>Glass</b> and ampules and vials making from <b>Glass</b> tubes  | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |  | IPC-V              |
| 73     | <b>Ground</b> nut decorticating  | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |  | IPC-V              |

| S. No.      | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks   | Concerned Division |
|-------------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---|--------------------|
| 74          | <b>Medical Oxygen</b>   | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 10 | 10 | 20              | 20                   | White    | The sector may become green category if it generates wastewater             | IPC-V              |
| ~H~         |   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |
| <b>75.0</b> | <b>HOT MIX PLANTS</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |
| 75.1        | Hot mix plants using oil as fuel  | 0  | 0  | 0  | 0               | 25 | 25 | 25 | 75              | 0  | 0  | 0               | 75                   | Orange   |   | IPC-V              |
| 75.2        | Hot mix plants using gaseous as fuel  | 0  | 0  | 0  | 0               | 25 | 25 | 10 | 60              | 0  | 0  | 0               | 60                   | Orange   |   | IPC-V              |
| 76          | <b>Hazardous</b> waste pre-processing/processing facility including spent acid processing, spent solvent recovery, etc. | 25 | 30 | 15 | 70              | 25 | 25 | 15 | 65              | 30 | 20 | 50              | 87.3                 | Red      |   | WM-II              |
| 77          | <b>Handloom</b> / carpet weaving (without dyeing and bleaching operation)   | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |   | IPC-V              |
| ~I~         |   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |
| 78          | <b>Ice</b> cream manufacturing units  | 25 | 25 | 20 | 70              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 77.5                 | Orange   |   | IPC-IV             |
| 79          | Printing <b>Ink</b> Manufacturing   | 20 | 30 | 15 | 65              | 0  | 20 | 10 | 30              | 30 | 10 | 40              | 77.3                 | Orange   | In the process pigments, binders and solvents are used. VOCs are generated. | IPC-I              |

| S. No.      | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks                               | Concerned Division |
|-------------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---------------------------------------|--------------------|
| 80          | Manufacturing of scientific and mathematical <b>Instrument</b> (assembling only)             | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |                                       | IPC-V              |
| ~J~         |  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |                                       |                    |
| <b>81.0</b> | <b>JUTE PROCESSING</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |                                       |                    |
| 81.1        | Jute processing (with dyeing / with boiler)  | 25 | 20 | 25 | 70              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 77.5                 | Orange   |                                       | IPC-III            |
| 81.2        | Jute processing (without dyeing / without boiler)  | 20 | 0  | 20 | 40              | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 40                   | Green    |                                       | IPC-III            |
| 81.3        | Manufacturing of products from jute (without dyeing/ without boiler)                         | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |                                       | IPC-III            |
| ~L~         |  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |                                       |                    |
| 82          | <b>Lime</b> manufacturing (using lime kiln)  | 0  | 0  | 0  | 0               | 25 | 0  | 30 | 55              | 0  | 0  | 0               | 55                   | Orange   |                                       | IPC-V              |
| 83          | <b>Leather</b> foot wear and <b>Leather</b> products (excluding tanning and hide processing) | 0  | 0  | 0  | 0               | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 20                   | White    | Fumes due to use of adhesives / gums. | IPC-IV             |
| 84          | Manufacturing of optical <b>Lenses</b> (using electrical furnace)                            | 0  | 20 | 15 | 35              | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 35                   | Green    |                                       | IPC-V              |
| 85          | <b>Leather</b> cutting and stitching (more than 10 machine and using motor)                  | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |                                       | IPC-V              |
| ~M~         |  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |                                       |                    |

| S. No.      | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks   | Concerned Division |
|-------------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---|--------------------|
| 86          | Mobile towers using genset(s)  | 0  | 0  | 0  | 0               | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 50                   | Green    | i. The used oil/waste oil generated during repair and maintenance need to be disposed through authorized hazardous waste recycler by service provider/OEM.<br><br>ii. Order dated 24.08.2017 in the related matter with OA No. 83(THC) OF 2012 (Bharti Infratel Ltd.) may be referred for issuance of composite consent in case of mobile towers. | UPC-I              |
| <b>87.0</b> | <b>MILK PROCESSES AND DAIRY PRODUCTS</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |
| 87.1        | Milk processes and dairy products (integrated project)   | 30 | 25 | 30 | 85              | 25 | 20 | 30 | 75              | 0  | 0  | 0               | 90.6                 | Red      |   | IPC-IV             |
| 87.2        | Dairy and dairy products (Small scale units), using coal/biomass as fuel (Wastewater generation ≥ 100 KLD) | 25 | 25 | 30 | 80              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 85                   | Red      |   | IPC-IV             |
| 87.3        | Dairy and dairy products (Small scale units), using coal/biomass as fuel (Wastewater generation < 100 KLD) | 25 | 25 | 20 | 70              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 77.5                 | Orange   |   | IPC-IV             |
| 87.4        | Dairy and dairy products, (Small scale units), using PNG as fuel   | 25 | 25 | 20 | 70              | 0  | 0  | 10 | 10              | 0  | 0  | 0               | 71.5                 | Orange   |   | IPC-IV             |
| <b>88.0</b> | <b>MINING AND ORE BENEFICIATION</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |
| 88.1        | Open-cast coal mining  | 10 | 25 | 35 | 70              | 25 | 30 | 35 | 90              | 10 | 70 | 80              | 97.5                 | Red      |   | IPC-II             |
| 88.2        | Underground coal mining  | 0  | 25 | 35 | 60              | 25 | 30 | 35 | 90              | 0  | 0  | 0               | 93                   | Red      |   | IPC-II             |
| 88.3        | Mining of major minerals and ore beneficiation   | 20 | 30 | 35 | 85              | 25 | 30 | 35 | 90              | 25 | 70 | 95              | 99.4                 | Red      | Includes captive limestone mining.  | IPC-II             |

| S. No.                                  | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks                      | Concerned Division |
|---|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|------------------------------|--------------------|
| 88.4                                    | Mining of minor minerals (except Sand/riverbed material mining)                                      | 10 | 0  | 20 | 30              | 25 | 25 | 25 | 75              | 0  | 0  | 0               | 78.8                 | Orange   |                              | IPC-II             |
| 88.5                                    | Grinding, processing, and screening of minor minerals  | 0  | 0  | 0  | 0               | 25 | 30 | 0  | 55              | 0  | 0  | 0               | 55                   | Orange   |                              | IPC-II             |
| 89                                      | Manufacturing of <b>Mirror</b> from sheet glass  | 0  | 0  | 0  | 0               | 30 | 20 | 0  | 50              | 25 | 10 | 35              | 58.8                 | Orange   |                              | IPC-V              |
| 90                                      | <b>Mineral</b> processing, industries involving ore sintering, pelletising, grinding & pulverization | 0  | 0  | 0  | 0               | 25 | 25 | 25 | 75              | 0  | 0  | 0               | 75                   | Orange   |                              | IPC-II             |
| 91                                      | <b>Malteries</b> (without fermentation)  | 30 | 15 | 25 | 70              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 77.5                 | Orange   |                              | IPC-III            |
| 92                                      | Manufacturing of <b>Mosquito</b> repellent & coil  | 0  | 0  | 0  | 0               | 30 | 0  | 25 | 55              | 0  | 0  | 0               | 55                   | Orange   | Toxic fumes may be released. | IPC-V              |
| 93                                      | Organic <b>Manure</b> (physical mixing)  | 0  | 0  | 0  | 0               | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 20                   | White    |                              | IPC-V              |
| 94                                      | Packing of powdered <b>Milk</b>  | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |                              | IPC-V              |
| <b>METALS AND METALLURGICAL SECTORS</b> |  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |                              |                    |
| <b>95.0</b>                             | <b>IRON &amp; STEEL (PRIMARY PROCESSING FROM ORE, INTEGRATED STEEL PLANTS AND SPONGE IRON UNITS)</b> |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |                              |                    |
| 95.1                                    | Integrated iron and steel plants   | 25 | 30 | 35 | 90              | 25 | 30 | 35 | 90              | 25 | 50 | 75              | 98.3                 | Red      |                              | IPC-II             |
| 95.2                                    | Stand-alone sintering/palletisation  | 0  | 0  | 0  | 0               | 25 | 30 | 35 | 90              | 0  | 0  | 0               | 90                   | Red      |                              | IPC-II             |
| 95.3                                    | Sponge iron with CPP (Captive Power Plant)   | 20 | 25 | 35 | 80              | 25 | 30 | 35 | 90              | 10 | 50 | 60              | 97                   | Red      |                              | IPC-II             |
| 95.4                                    | Sponge iron without CPP  | 20 | 15 | 30 | 65              | 25 | 30 | 35 | 90              | 10 | 50 | 60              | 96.3                 | Red      |                              | IPC-II             |

| S. No.       | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks | Concerned Division |
|--------------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---------|--------------------|
| 95.5         | Stand-alone coke oven gas plants  | 25 | 30 | 30 | 85              | 25 | 30 | 35 | 90              | 25 | 50 | 75              | 98                   | Red      |         | IPC-II             |
| <b>96.0</b>  | <b>ALUMINIUM PROCESSING</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 96.1         | Aluminium Refinery  | 10 | 30 | 35 | 75              | 25 | 25 | 35 | 85              | 10 | 70 | 80              | 96.6                 | Red      |         | IPC-II             |
| 96.2         | Aluminium Smelter   | 10 | 30 | 35 | 75              | 30 | 25 | 35 | 90              | 25 | 70 | 95              | 99.1                 | Red      |         | IPC-II             |
| 97           | <b>Copper Smelter</b>   | 10 | 30 | 35 | 75              | 30 | 25 | 35 | 90              | 10 | 70 | 80              | 97.8                 | Red      |         | IPC-II             |
| 98           | <b>Zinc smelter</b>   | 10 | 30 | 35 | 75              | 30 | 25 | 35 | 90              | 10 | 70 | 80              | 97.8                 | Red      |         | IPC-II             |
| <b>99.0</b>  | <b>FERROUS AND NON-FERROUS METAL SECONDARY PROCESSING/REPROCESSING UNITS INVOLVING DIFFERENT FURNACES THROUGH MELTING, REFINING, CASTING, ALLOY-MAKING</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 99.1         | All Ferrous and Non-ferrous metal secondary processing/reprocessing units involving different furnaces through melting, refining, casting, alloy-making (using coal/liquid fuels)   | 0  | 15 | 15 | 30              | 25 | 25 | 25 | 75              | 25 | 10 | 35              | 83.1                 | Red      |         | IPC-V              |
| 99.2         | Ferrous and Non-ferrous metal (excluding lead, nickel, and manganese) secondary processing/reprocessing units involving different furnaces through melting, refining, casting, alloy-making (using cleaner fuels/electricity) | 0  | 15 | 15 | 30              | 25 | 25 | 10 | 60              | 10 | 10 | 20              | 70                   | Orange   |         | IPC-V              |
| 100          | Aluminium & copper extraction from scrap using an oil-fired furnace (dry process only)  | 0  | 0  | 0  | 0               | 25 | 25 | 25 | 75              | 0  | 0  | 0               | 75                   | Orange   |         | IPC-V              |
| <b>101.0</b> | <b>INDUSTRY OR PROCESS INVOLVING METAL SURFACE TREATMENT OR PROCESS/HEAT TREATMENT</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |

| S. No.       | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks | Concerned Division |
|--------------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---------|--------------------|
| 101.1        | Industry or process involving metal surface treatment or process such as pickling/ electroplating/paint stripping/ heat treatment using cyanide bath/ phosphating or finishing and anodizing / enamellings/ galvanizing | 25 | 30 | 20 | 75              | 30 | 25 | 0  | 55              | 25 | 30 | 55              | 88.8                 | Red      |         | IPC-V              |
| 101.2        | Plasma electrolytic polishing (electroplating)  | 25 | 30 | 15 | 70              | 30 | 25 | 0  | 55              | 0  | 0  | 0               | 78.3                 | Orange   |         | IPC-V              |
| 101.3        | Heat treatment using furnace ( without cyaniding)   | 0  | 0  | 0  | 0               | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 50                   | Green    |         | IPC-V              |
| 101.4        | Heat treatment with any of the new technology like ultrasound probe, induction hardening, ionization beam, gas carburizing etc.   | 0  | 15 | 15 | 30              | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 38.8                 | Green    |         | IPC-V              |
| <b>102.0</b> | <b>FORGING OF FERROUS AND NON- FERROUS METALS</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 102.1        | Forging of ferrous and non-ferrous metals using liquid fuel   | 0  | 0  | 0  | 0               | 25 | 25 | 20 | 70              | 30 | 10 | 40              | 76                   | Orange   |         | IPC-V              |
| 102.2        | Forging of ferrous and non-ferrous metals using gaseous fuel  | 0  | 0  | 0  | 0               | 25 | 25 | 10 | 60              | 30 | 10 | 40              | 68                   | Orange   |         | IPC-V              |
| 102.3        | Forging of ferrous and non-ferrous metals using electricity   | 0  | 0  | 0  | 0               | 25 | 25 | 0  | 50              | 30 | 10 | 40              | 60                   | Orange   |         | IPC-V              |
| 102.4        | Forging of ferrous and non-ferrous metals (cold forging, without any heat treatment)  | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 30 | 10 | 40              | 40                   | Green    |         | IPC-V              |
| <b>103.0</b> | <b>ROLLING MILLS</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 103.1        | Rolling and pickling  | 25 | 30 | 15 | 70              | 25 | 30 | 25 | 80              | 25 | 10 | 35              | 90.5                 | Red      |         | IPC-V              |
| 103.2        | Rolling mills (oil and coal fired)  | 0  | 15 | 15 | 30              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 57.5                 | Orange   |         | IPC-V              |
| 103.3        | Rolling mills (gas fired)   | 0  | 15 | 15 | 30              | 25 | 0  | 10 | 35              | 0  | 0  | 0               | 44.8                 | Green    |         | IPC-V              |

| S. No.       | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks                  | Concerned Division |
|--------------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--------------------------|--------------------|
| 103.4        | Cold rolling mill (without heat treatment)   | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |                          | IPC-V              |
| <b>104.0</b> | <b>FOUNDRY OPERATIONS</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |                          |                    |
| 104.1        | Cupola furnace   | 0  | 0  | 0  | 0               | 25 | 25 | 25 | 75              | 10 | 10 | 20              | 77.5                 | Orange   |                          | IPC-V              |
| 104.2        | Induction furnace/arc furnace  | 0  | 0  | 0  | 0               | 25 | 30 | 0  | 55              | 10 | 10 | 20              | 59.5                 | Orange   |                          | IPC-V              |
| <b>105.0</b> | <b>WIRE DRAWING AND WIRE NETTING</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |                          |                    |
| 105.1        | Wire drawing and wire netting (with pickling)  | 25 | 30 | 15 | 70              | 30 | 25 | 0  | 55              | 10 | 10 | 20              | 81.3                 | Red      |                          | IPC-V              |
| 105.2        | Wire drawing and wire netting (without pickling and with heat treatment)   | 0  | 0  | 0  | 0               | 25 | 0  | 20 | 45              | 10 | 10 | 20              | 50.5                 | Green    |                          | IPC-V              |
| 105.3        | Wire drawing and wire netting (without pickling and without heat treatment)  | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |                          | IPC-V              |
| 106          | <b>Die-casting</b> /extrusion process only   | 0  | 0  | 0  | 0               | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 50                   | Green    |                          | IPC-V              |
| 107          | Manufacturing of aluminium utensils from aluminium circles pressing/ Brass and bell <b>Metal</b> utensils manufacturing from circles (dry mechanical operation only) | 0  | 0  | 0  | 0               | 0  | 30 | 0  | 30              | 0  | 0  | 0               | 30                   | Green    | Emissions during buffing | IPC-V              |
| 108          | Manufacturing of <b>Metal</b> caps containers etc  | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |                          | IPC-V              |
| ~N~          |  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |                          |                    |

| S. No.       | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks   | Concerned Division |
|--------------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---|--------------------|
| 109          | Formulation/palletisation of camphor tablets, <b>Naphthalene</b> balls from camphor/ naphthalene powders.   | 0  | 0  | 0  | 0               | 35 | 20 | 0  | 55              | 0  | 0  | 0               | 55                   | Orange   | Emissions of benzene, hydrocarbons etc. are expected.           | IPC-V              |
| 110          | Organic and inorganic <b>Nutrients</b> by physical mixing (without boiler and without any reactor)  | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 10 | 10 | 20              | 20                   | White    | The sector may become green category if it generates wastewater | IPC-V              |
| <b>111.0</b> | <b>ORGANIC CHEMICALS INCLUDING HALOGENATED HYDROCARBONS</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |
| 111.1        | Organic chemicals including halogenated hydrocarbons (using solid/liquid fuel)  | 30 | 30 | 25 | 85              | 35 | 0  | 30 | 65              | 30 | 20 | 50              | 93.6                 | Red      |   | IPC-I              |
| 111.2        | Organic chemicals including halogenated hydrocarbons (using cleaner fuel)   | 30 | 30 | 25 | 85              | 35 | 0  | 10 | 45              | 30 | 20 | 50              | 92.1                 | Red      |   | IPC-I              |
| 112          | <b>Oil</b> and gas extraction (offshore & onshore extraction through drilling wells), Coal Bed Methane (CBM) drilling and shale gas, including group gathering stations (GGS), etc. | 25 | 30 | 15 | 70              | 20 | 25 | 0  | 45              | 30 | 10 | 40              | 82.8                 | Red      |   | IPC-I              |
| <b>113.0</b> | <b>EDIBLE OIL MILLS</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |
| 113.1        | Vegetable oil manufacturing including solvent extraction and refinery /hydrogenated oils  | 25 | 25 | 20 | 70              | 25 | 0  | 20 | 45              | 0  | 0  | 0               | 76.8                 | Orange   |   | IPC-III            |
| 113.2        | Oil mills Ghani and extraction without boiler (no refining/ hydrogenation)  | 10 | 25 | 15 | 50              | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 50                   | Green    |   | IPC-III            |

| S. No.       | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks  | Concerned Division |
|--------------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--|--------------------|
| ~P~          |   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| <b>114.0</b> | <b>POWER GENERATION PLANTS</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 114.1        | Power plants based on coal  | 0  | 15 | 35 | 50              | 35 | 25 | 35 | 95              | 10 | 70 | 80              | 98.3                 | Red      |  | IPC-II             |
| 114.2        | Power plants based on liquid fuels  | 0  | 15 | 35 | 50              | 25 | 25 | 35 | 85              | 30 | 20 | 50              | 92.5                 | Red      |  | IPC-II             |
| 114.3        | Biomass-based power plants  | 0  | 15 | 30 | 45              | 25 | 25 | 25 | 75              | 10 | 50 | 60              | 88.1                 | Red      |  | IPC-II             |
| 114.4        | Nuclear energy-based power plants (> 220 MW)  | 0  | 30 | 35 | 65              | 25 | 0  | 25 | 50              | 25 | 20 | 45              | 81.6                 | Red      | Overall safety aspects related with radioactivity is regulated by Atomic Energy Regulatory Board (AERB). | IPC-II             |
| 114.5        | Nuclear energy-based power plants (up to 220 MW)  | 0  | 30 | 35 | 65              | 25 | 0  | 25 | 50              | 25 | 10 | 35              | 79.9                 | Orange   | Overall safety aspects related with radioactivity is regulated by Atomic Energy Regulatory Board (AERB). | IPC-II             |
| 114.6        | Gas-based power plants  | 0  | 15 | 35 | 50              | 25 | 0  | 20 | 45              | 0  | 0  | 0               | 61.3                 | Orange   |  | IPC-II             |
| <b>115.0</b> | <b>PULP &amp; PAPER (AGRO &amp; WOOD)</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 115.1        | Manufacturing of bleached chemical pulp, papers, and paperboards  | 30 | 30 | 35 | 95              | 30 | 0  | 35 | 65              | 30 | 30 | 60              | 98.1                 | Red      |  | IPC-III            |
| 115.2        | Unbleached or Totally Chlorine Free (TCF) bleaching for manufacturing of chemical pulp, papers, and paperboards | 30 | 20 | 35 | 85              | 30 | 0  | 35 | 65              | 10 | 30 | 40              | 92.9                 | Red      |  | IPC-III            |
| 115.3        | Bleached grades of chemical pulp, paper, and paperboard having Totally Chlorine Free (TCF) bleaching            | 30 | 20 | 35 | 85              | 30 | 0  | 35 | 65              | 10 | 30 | 40              | 92.9                 | Red      |  | IPC-III            |
| <b>116.0</b> | <b>PULP AND PAPER (RECYCLED FIBRE/WASTE PAPER BASED)</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 116.1        | Pulp & Paper (With bleaching)   | 30 | 15 | 35 | 80              | 25 | 0  | 25 | 50              | 10 | 30 | 40              | 89                   | Red      |  | IPC-III            |
| 116.2        | Pulp & Paper (Without bleaching, capacity ≥15 TPD)  | 25 | 15 | 35 | 75              | 25 | 0  | 25 | 50              | 10 | 30 | 40              | 86.3                 | Red      |  | IPC-III            |

| S. No.       | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks  | Concerned Division |
|--------------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--|--------------------|
| 116.3        | Pulp & Paper (Without bleaching; plant capacity <15 TPD)   | 25 | 15 | 20 | 60              | 25 | 0  | 25 | 50              | 10 | 10 | 20              | 74                   | Orange   |  | IPC-III            |
| <b>117.0</b> | <b>MANUFACTURING OF PAINTS, VARNISHES</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 117.1        | Manufacturing of solvent-based paints/varnish  | 35 | 30 | 20 | 85              | 25 | 20 | 25 | 70              | 25 | 30 | 55              | 94.4                 | Red      | The process may cause considerable emissions of volatile organic compounds (VOC)   | IPC-I              |
| 117.2        | Manufacturing of water-based paints  | 25 | 30 | 20 | 75              | 25 | 20 | 25 | 70              | 20 | 20 | 40              | 88.8                 | Red      |  | IPC-I              |
| 117.3        | Manufacturing of powder coatings   | 0  | 15 | 15 | 30              | 20 | 30 | 25 | 75              | 10 | 20 | 30              | 82.5                 | Red      |  | IPC-I              |
| 117.4        | Manufacturing of paint and varnishes (only blending and mixing)  | 20 | 30 | 15 | 65              | 0  | 20 | 0  | 20              | 30 | 20 | 50              | 77.3                 | Orange   |  | IPC-I              |
| <b>118.0</b> | <b>PESTICIDE INDUSTRIES</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 118.1        | Pesticide technical (organic chemicals based)  | 30 | 30 | 20 | 80              | 30 | 25 | 25 | 80              | 30 | 30 | 60              | 94                   | Red      |  | IPC-I              |
| 118.2        | Pesticide technical (inorganic chemicals based like Zinc Phosphide and Aluminium Phosphide)  | 20 | 30 | 20 | 70              | 30 | 25 | 25 | 80              | 20 | 20 | 40              | 91                   | Red      |  | IPC-I              |
| 118.3        | Pesticide formulation industries (Liquid formulation only) having boiler/thermopack  | 20 | 30 | 20 | 70              | 25 | 20 | 25 | 70              | 20 | 20 | 40              | 86.5                 | Red      |  | IPC-I              |
| 118.4        | Pesticide formulation industries (Liquid formulation only) without having boiler/thermopack  | 20 | 30 | 20 | 70              | 0  | 20 | 0  | 20              | 20 | 20 | 40              | 79                   | Orange   | Considering that dry formulation industries can also generate effluent because of equipment cleaning, the water pollution score is given | IPC-I              |
| 118.5        | Pesticide formulation industries (having both liquid and dry formulation or dry formulation only) without having boiler / thermopack | 20 | 30 | 20 | 70              | 30 | 20 | 0  | 50              | 20 | 20 | 40              | 83.5                 | Red      | Considering that dry formulation industries can also generate effluent because of equipment cleaning, the water pollution score is given | IPC-I              |

| S. No.       | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks  | Concerned Division |
|--------------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--|--------------------|
| 118.6        | Pesticide formulation industries (having both liquid and dry formulation or dry formulation only) having boiler / thermopack | 20 | 30 | 20 | 70              | 30 | 20 | 25 | 75              | 20 | 20 | 40              | 88.8                 | Red      | Considering that dry formulation industries can also generate effluent because of equipment cleaning, the water pollution score is given | IPC-I              |
| 119          | <b>Photographic</b> film and its chemicals   | 20 | 20 | 15 | 55              | 30 | 0  | 25 | 55              | 20 | 10 | 30              | 74.1                 | Orange   | Silver salts and other chemicals are used  | IPC-I              |
| 120          | <b>Petroleum</b> oil refineries  | 35 | 30 | 30 | 95              | 35 | 20 | 35 | 90              | 20 | 20 | 40              | 98.3                 | Red      |  | IPC-I              |
| <b>121.0</b> | <b>PETROCHEMICALS</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 121.1        | Petrochemicals (Naphtha cracker.)  | 30 | 30 | 30 | 90              | 35 | 25 | 35 | 95              | 30 | 20 | 50              | 98.5                 | Red      |  | IPC-I              |
| 121.2        | Petrochemicals (Gas cracker)   | 30 | 30 | 30 | 90              | 35 | 25 | 25 | 85              | 30 | 20 | 50              | 96.8                 | Red      |  | IPC-I              |
| 121.3        | Petrochemicals (without cracker)   | 25 | 30 | 20 | 75              | 25 | 25 | 15 | 65              | 20 | 20 | 40              | 88.1                 | Red      |  | IPC-I              |
| 121.4        | Petrochemicals (without cracker and using cleaner/gaseous fuel)  | 25 | 30 | 20 | 75              | 25 | 25 | 10 | 60              | 20 | 20 | 40              | 87.5                 | Red      |  | IPC-I              |
| <b>122.0</b> | <b>MANUFACTURING OF LUBRICATING OILS, GREASE AND PETROLEUM-BASED PRODUCTS</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 122.1        | Manufacturing of lubricating oils, grease, and petroleum-based products  | 20 | 15 | 15 | 50              | 25 | 20 | 10 | 55              | 30 | 10 | 40              | 75.3                 | Orange   | Such unit uses distillation columns/ boilers etc   | IPC-I              |
| 122.2        | Manufacturing of lubricating oils, grease, and petroleum-based products (only blending)                                      | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 10 | 10 | 20              | 32.5                 | Green    |  | IPC-I              |
| <b>123.0</b> | <b>PHARMACEUTICAL INDUSTRY</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 123.1        | Pharmaceuticals manufacturing  | 35 | 30 | 30 | 95              | 35 | 25 | 35 | 95              | 30 | 20 | 50              | 98.6                 | Red      |  | IPC-I              |
| 123.2        | Pharmaceuticals manufacturing using cleaner/gaseous fuel   | 35 | 30 | 30 | 95              | 35 | 25 | 10 | 70              | 30 | 20 | 50              | 98                   | Red      |  | IPC-I              |

| S. No. | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks   | Concerned Division |
|--------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---|--------------------|
| 123.3  | Pharmaceuticals (Formulation)   | 20 | 15 | 15 | 50              | 25 | 0  | 25 | 50              | 30 | 10 | 40              | 72.5                 | Orange   |   | IPC-I              |
| 123.4  | Pharmaceuticals (Formulation) using cleaner/gaseous fuel  | 20 | 15 | 15 | 50              | 25 | 0  | 10 | 35              | 30 | 10 | 40              | 68.8                 | Orange   |   | IPC-I              |
| 123.5  | Vaccine manufacturing   | 20 | 15 | 15 | 50              | 25 | 0  | 35 | 60              | 30 | 10 | 40              | 78                   | Orange   |   | IPC-I              |
| 123.6  | Vaccine manufacturing using cleaner/gaseous fuel  | 20 | 15 | 15 | 50              | 25 | 0  | 10 | 35              | 30 | 10 | 40              | 68.8                 | Orange   |   | IPC-I              |
| 123.7  | Pharmaceutical R&D facilities   | 20 | 15 | 15 | 50              | 25 | 0  | 25 | 50              | 30 | 10 | 40              | 72.5                 | Orange   |   | IPC-I              |
| 123.8  | Ayurvedic or Unani medicines manufacturing  | 20 | 15 | 15 | 50              | 25 | 0  | 25 | 50              | 30 | 10 | 40              | 72.5                 | Orange   |   | IPC-I              |
| 123.9  | Ayurvedic or unani medicines manufacturing using cleaner fuel   | 20 | 15 | 15 | 50              | 25 | 0  | 10 | 35              | 0  | 0  | 0               | 58.8                 | Orange   |   | IPC-I              |
| 123.10 | Ayurvedic or unani medicines manufacturing (Without boiler )  | 20 | 15 | 15 | 50              | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 50                   | Green    |   | IPC-I              |
| 124    | Digital <b>Printing</b> on flex /vinyl, PVC etc. (more than 5 machines)   | 0  | 0  | 0  | 0               | 20 | 0  | 0  | 20              | 30 | 10 | 40              | 46                   | Green    |   | IPC-V              |
| 125    | Spray <b>Painting</b> , Paint baking, Paint shipping  | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 30 | 10 | 40              | 47.5                 | Green    | Emissions in the form of VOCs and HC are generated. | IPC-V              |
| 126    | <b>Plywood</b> /board manufacturing ( including Veneer and laminate) with biomass fired boiler / thermic fluid heater (without resin plant) | 20 | 20 | 15 | 55              | 25 | 20 | 25 | 70              | 0  | 0  | 0               | 78.3                 | Orange   |   | IPC-V              |

| S. No. | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks                            | Concerned Division |
|--------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|------------------------------------|--------------------|
| 127    | <b>Printing</b> press (newspaper, books, magazines, etc./ Gravure printing)                          | 20 | 0  | 15 | 35              | 20 | 0  | 0  | 20              | 30 | 10 | 40              | 56.5                 | Orange   |                                    | IPC-V              |
| 128    | Manufacturing of bi-axially oriented <b>Polypropylene</b> (PP) film along with metalizing operations | 0  | 15 | 15 | 30              | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 30                   | Green    | Mainly extrusion process involving | IPC-V              |
| 129    | <b>Pulse/Dal</b> Mills   | 0  | 0  | 0  | 0               | 0  | 30 | 0  | 30              | 0  | 0  | 0               | 30                   | Green    |                                    | IPC-V              |
| 130    | Insulation and other coated <b>Papers</b> (excluding paper or pipe manufacturing)                    | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 25                   | Green    |                                    | IPC-V              |
| 131    | <b>Packaging</b> materials manufacturing from non-asbestos fibre, vegetable fibre yarn               | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 25                   | Green    |                                    | IPC-V              |
| 132    | <b>Polythene</b> and plastic processed products manufacturing (virgin/compostable plastic)           | 0  | 15 | 15 | 30              | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 37                   | Green    |                                    | IPC-V              |
| 133    | <b>Poultry</b> , piggery, and hatchery   | 0  | 0  | 0  | 0               | 30 | 20 | 0  | 50              | 0  | 0  | 0               | 50                   | Green    |                                    | IPC-V              |
| 134    | <b>Puffed</b> rice (muri) (using gas)  | 0  | 0  | 0  | 0               | 25 | 0  | 10 | 35              | 0  | 0  | 0               | 35                   | Green    |                                    | IPC-V              |

| S. No.       | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks  | Concerned Division |
|--------------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--|--------------------|
| 135          | Biscuits trays etc from rolled <b>PVC</b> sheet (using automatic vacuum forming machines) | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |  | IPC-V              |
| 136          | Fountain <b>Pen</b> manufacturing by assembling only                                      | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |  | IPC-V              |
| 137          | Glass <b>Putty</b> and sealant (by mixing with machine only)                              | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |  | IPC-V              |
| 138          | Manufacturing of <b>Paper</b> Pins, U-clips, etc.   | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |  | IPC-V              |
| 139          | Solar <b>Power</b> generation through solar photovoltaic cell and wind power              | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |  | IPC-V              |
| ~R~          |   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 140          | Synthetic <b>Rubber</b> excluding molding   | 20 | 15 | 15 | 50              | 20 | 0  | 25 | 45              | 20 | 10 | 30              | 68.8                 | Orange   | Most synthetic rubber is created from two materials, styrene, and butadiene. | IPC-I              |
| <b>141.0</b> | <b>REFRACTORIES</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 141.1        | Refractories based on coal/liquid fuel (fuel consumption: 12 TPD and above)               | 0  | 0  | 0  | 0               | 25 | 25 | 30 | 80              | 0  | 0  | 0               | 80                   | Red      |  | IPC-V              |
| 141.2        | Refractories based on coal/liquid fuel (fuel consumption: less than 12 TPD)               | 0  | 0  | 0  | 0               | 25 | 25 | 25 | 75              | 0  | 0  | 0               | 75                   | Orange   |  | IPC-V              |
| 141.3        | Refractories based on cleaner fuels   | 0  | 0  | 0  | 0               | 25 | 25 | 10 | 60              | 0  | 0  | 0               | 60                   | Orange   |  | IPC-V              |
| <b>142.0</b> | <b>RUBBER PRODUCTS MANUFACTURING</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |

| S. No.       | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks  | Concerned Division |
|--------------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--|--------------------|
| 142.1        | Tyre and tube manufacturing   | 0  | 15 | 15 | 30              | 25 | 25 | 25 | 75              | 0  | 0  | 0               | 78.8                 | Orange   |  | IPC-V              |
| 142.2        | Tyres and tubes vulcanization/ hot retreading   | 0  | 15 | 15 | 30              | 25 | 20 | 10 | 55              | 0  | 0  | 0               | 61.8                 | Orange   | Emissions of PM, VOCs and obnoxious odour are generated. | IPC-V              |
| 142.3        | Rubber goods industry (with solid fuel/oil-based boiler)  | 0  | 15 | 15 | 30              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 57.5                 | Orange   |  | IPC-V              |
| 142.4        | Rubber goods industry (with gas-based boiler)   | 0  | 15 | 15 | 30              | 25 | 0  | 10 | 35              | 0  | 0  | 0               | 44.8                 | Green    |  | IPC-V              |
| <b>143.0</b> | <b>SYNTHETIC RESINS</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 143.1        | Synthetic resins manufacturing  | 20 | 15 | 15 | 50              | 25 | 20 | 25 | 70              | 20 | 10 | 30              | 82                   | Red      |  | IPC-I              |
| 143.2        | Synthetic resins manufacturing (using only gaseous fuel)  | 20 | 15 | 15 | 50              | 25 | 20 | 10 | 55              | 20 | 10 | 30              | 73                   | Orange   |  | IPC-I              |
| 144          | Blending of melamine Resins & different powder, additives by physical mixing, including phenolic resin (without boiler) | 0  | 15 | 15 | 30              | 0  | 30 | 0  | 30              | 20 | 10 | 30              | 51                   | Green    |  | IPC-I              |
| <b>145.0</b> | <b>RICE MILLS</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 145.1        | Parboiled rice mill (with soaking and steam/drier)  | 25 | 0  | 20 | 45              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 61.3                 | Orange   |  | IPC-V              |
| 145.2        | Raw rice mill (Without soaking and steam/drier)/ hullers)   | 0  | 0  | 0  | 0               | 0  | 30 | 0  | 30              | 0  | 0  | 0               | 30                   | Green    |  | IPC-V              |
| 146          | Repairing of electric motors and generators (dry mechanical process)  | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |  | IPC-V              |
| 147          | Manufacturing of plastic or cotton Rope   | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |  | IPC-V              |

| S. No.                                   | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks | Concerned Division |
|--|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---------|--------------------|
| 148                                      | Tyre <b>Retraders</b>  | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |         | WM-III             |
| <b>RECYCLING AND REPROCESSING SECTOR</b> |  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| <b>149.0</b>                             | INDUSTRIES ENGAGED IN <b>RECYCLING/REPROCESSING/ RECOVERY/REUSE</b> OF HAZARDOUS WASTE UNDER SCHEDULE IV OF H&OW(M & TBM) RULES, 2016 - ITEMS, NAMELY, SPENT CATALYSTS CONTAINING NICKEL, CADMIUM, ZINC, COPPER, ARSENIC, VANADIUM, AND COBALT, INCLUDING DRY BATTERY (EXCEPT LEAD), AND CLEARED METAL CATALYST. |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 149.1                                    | Hydro & pyro metallurgy  | 0  | 30 | 15 | 45              | 35 | 25 | 25 | 85              | 25 | 10 | 35              | 91                   | Red      |         | WM-II              |
| 149.2                                    | Hydro & pyro metallurgy (using cleaner/gaseous fuels & without crushing of materials)  | 0  | 30 | 15 | 45              | 35 | 25 | 10 | 70              | 25 | 10 | 35              | 82                   | Red      |         | WM-II              |
| 149.3                                    | Pyro metallurgy (using coal/liquid fuels)  | 0  | 0  | 0  | 0               | 35 | 25 | 25 | 85              | 20 | 10 | 30              | 87.3                 | Red      |         | WM-II              |
| 149.4                                    | Pyro metallurgy (using cleaner/gaseous fuels)  | 0  | 0  | 0  | 0               | 35 | 25 | 10 | 70              | 20 | 10 | 30              | 74.5                 | Orange   |         | WM-II              |
| 149.5                                    | Hydro metallurgy   | 0  | 30 | 15 | 45              | 30 | 25 | 0  | 55              | 25 | 10 | 35              | 73                   | Orange   |         | WM-II              |
| <b>150.0</b>                             | <b>E-WASTE DISMANTLING / RECYCLING</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |
| 150.1                                    | Industry engaged in recycling of e-waste generated from the electrical and electronic Equipment (EEE) listed in the E-Waste (Management) Rules 2022 using pyro/ hydro/ electro-metallurgical processing and recycling of plastic separated from Waste EEE  | 30 | 30 | 20 | 80              | 35 | 25 | 15 | 75              | 25 | 20 | 45              | 92                   | Red      |         | WM-III             |

| S. No.       | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks  | Concerned Division |
|--------------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--|--------------------|
| 150.2        | Industry engaged in recycling of e-waste generated from the electrical and electronic equipment (EEE) listed in the E-Waste (Management) Rules 2022 (PCB processing limited to only mechanical processing and separation without pyro/hydro/ electro-metallurgical processing), production of Al, Cu, and other metals from non-PCB sources and/or recycling of plastic separated from Waste EEE. | 0  | 15 | 15 | 30              | 20 | 25 | 15 | 60              | 25 | 10 | 35              | 73                   | Orange   |  | WM-III             |
| 150.3        | Industry engaged in dismantling (only) of e-waste, generated from the electrical and electronic equipment (EEE) listed in the E-Waste (Management) Rules 2022   | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 25 | 10 | 35              | 43.1                 | Green    |  | WM-III             |
| 150.4        | E-waste refurbishing centres  | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 25 | 10 | 35              | 43.1                 | Green    |  | WM-III             |
| <b>151.0</b> | <b>INDUSTRIES ENGAGED IN RECYCLING/REPROCESSING/ RECOVERY/REUSE OF HAZARDOUS WASTE (Items as per Schedule IV of H&amp;OW( M &amp; TBM) Rules, 2016.)</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 151.1        | Lead Recycling ( Lead Acid Batteries with Acids; Lead Scrap Recycling) Rotary Furnace/ Pit Furnace (Mandir/Canopy Bhatti)   | 0  | 30 | 20 | 50              | 35 | 30 | 25 | 90              | 20 | 20 | 40              | 94.5                 | Red      | This also includes battery scrap, namely: Lead battery plates covered by ISRI, Code word "Rails" Battery lugs covered by ISRI, Code word "Rakes." Scrap drained/dry while intact, lead batteries covered by ISRI, Code word "rains." | WM-II              |

| S. No. | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks  | Concerned Division |
|--------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--|--------------------|
| 151.2  | Lead Recycling ( Drained Lead Acid Batteries; Lead Scrap Recycling) Rotary Furnace/Mandir Bhatti on Cleaner Fuel         | 0  | 30 | 15 | 45              | 35 | 30 | 10 | 75              | 20 | 10 | 30              | 84.4                 | Red      | This also includes, battery scrap, namely: Lead battery plates covered by ISRI, Code word "Rails" Battery lugs covered by ISRI, Code word "Rakes." Scrap drained/dry while intact, lead batteries covered by ISRI, Code word "rains."  | WM-II              |
| 151.3  | Isolated storages (as defined under Manufacture, Storage, and Import of Hazardous Chemicals Rules, 1989 as amended)      | 10 | 25 | 15 | 50              | 20 | 25 | 0  | 45              | 30 | 10 | 40              | 71.3                 | Orange   |  | IPC-I              |
| 151.4  | Paint and ink sludge / residues recycling  | 20 | 25 | 15 | 60              | 0  | 20 | 0  | 20              | 30 | 10 | 40              | 72                   | Orange   |  | WM-II              |
| 151.5  | Industries engaged in recycling / reprocessing/ recovery/reuse of Hazardous Waste, excluding lead, paint, and ink sludge | 0  | 30 | 15 | 45              | 35 | 0  | 25 | 60              | 20 | 10 | 30              | 75                   | Orange   | This includes items namely - Brass Dross, Copper Dross, Copper Oxide Mill Scale, Copper everts, Cake & Residues, Waste Copper and copper alloys in dispersible form, Slags from copper processing for further processing or refining, Insulated Copper Wire, Scrap/copper with PVC sheathing including ISRI-code material namely "Druid" Jelly filled Copper cables, Zinc Dross-Hot dip Galvanizers SLAB., Zinc Dross-Bottom Dross, Zinc ash/Skimming arising from galvanizing and die casting operations, Zinc ash/Skimming/other zinc bearing wastes arising from smelting and refining,, Zinc ash and residues including zinc alloy residues in dispersible form. | WM-II              |

| S. No.       | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks   | Concerned Division |
|--------------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---|--------------------|
| 151.6        | Refining of used oil by hydro-treating/using solvent extraction                             | 10 | 25 | 25 | 60              | 25 | 0  | 25 | 50              | 20 | 20 | 40              | 78                   | Orange   |   | WM-II              |
| 151.7        | Refining of used oil by using thin film evaporation/vacuum distillation with clay treatment | 10 | 25 | 15 | 50              | 25 | 0  | 15 | 40              | 20 | 10 | 30              | 67.5                 | Orange   |   | WM-II              |
| 151.8        | Recycling / reprocessing of waste oil   | 20 | 25 | 15 | 60              | 25 | 0  | 15 | 40              | 20 | 10 | 30              | 74                   | Orange   |   | WM-II              |
| <b>152.0</b> | <b>RECYCLING OF PLASTIC WASTE</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |
| 152.1        | Manufacturing of flakes/staple fibre/strip from the recycling of PET bottles                | 20 | 15 | 25 | 60              | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 64                   | Orange   |   | IPC-I              |
| 152.2        | Plastic waste processing (manufacturing of flakes/granules)                                 | 20 | 15 | 15 | 50              | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 55                   | Orange   | Process using In-built heaters.Washwater and fugitive emission. | UPC-II             |
| <b>153.0</b> | <b>SCRAPING FACILITIES FOR RECYCLING END-OF-LIFE VEHICLES, WAGONS, AND COACHES</b>          |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |
| 153.1        | Collection, Depollution and Dismantling Centers (Without shredding)                         | 0  | 30 | 15 | 45              | 0  | 30 | 0  | 30              | 25 | 10 | 35              | 62.9                 | Orange   |   | WM-II              |
| 153.2        | Collection, Depollution, Dismantling and shredding Centers                                  | 0  | 30 | 15 | 45              | 0  | 30 | 0  | 30              | 25 | 10 | 35              | 62.9                 | Orange   |   | WM-II              |
| 153.3        | Common Shredders (Standalone)   | 0  | 0  | 0  | 0               | 0  | 30 | 0  | 30              | 25 | 10 | 35              | 44.8                 | Green    |   | WM-II              |
| 153.4        | Collection Centers (Without depollution, dismantling and shredding)                         | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |   | WM-II              |
| ~S~          |   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |
| 154          | <b>Sugar</b> (excluding khandsari/jaggery)  | 30 | 25 | 35 | 90              | 25 | 0  | 25 | 50              | 30 | 10 | 40              | 94.5                 | Red      | Generates large volume of wastewater.                           | IPC-III            |

| S. No. | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks  | Concerned Division |
|--------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--|--------------------|
| 155    | Ship breaking industries   | 0  | 0  | 0  | 0               | 0  | 30 | 0  | 30              | 30 | 20 | 50              | 57.5                 | Orange   | Ship breaking releases a large number of pollutants, including toxic waste, used/waste oil, polychlorinated biphenyls, and heavy metals. | WM-III             |
| 156    | Slaughterhouse / Slaughterhouse (with rendering plant)/ integrated slaughtering unit, meat processing units, bone mill, processing of animal horns, hoofs and other body parts | 30 | 25 | 30 | 85              | 25 | 20 | 25 | 70              | 0  | 0  | 0               | 90.3                 | Red      |  | IPC-IV             |
| 157    | Manufacturing of Silica gel  | 10 | 25 | 20 | 55              | 30 | 0  | 20 | 50              | 25 | 10 | 35              | 74.1                 | Orange   |  | IPC-I              |
| 158    | Manufacturing of Iodized Salt from Crude / Raw Salt  | 10 | 20 | 15 | 45              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 61.3                 | Orange   | Process may involve boiling in evaporators (multiple effect evaporators), centrifuging, iodization, mixing, etc.                         | IPC-V              |
| 159    | Manufacturing of Starch / Sago / Sorbitol  | 20 | 25 | 25 | 70              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 77.5                 | Orange   |  | IPC-III            |
| 160    | Stone crushers   | 0  | 0  | 0  | 0               | 25 | 30 | 0  | 55              | 0  | 0  | 0               | 55                   | Orange   |  | IPC-V              |
| 161    | Stone crushing/grinding/washing & screening of riverbed material(s)  | 10 | 0  | 25 | 35              | 25 | 30 | 0  | 55              | 0  | 0  | 0               | 62.9                 | Orange   |  | IPC-V              |

| S. No.       | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks  | Concerned Division |  |
|--------------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--|--------------------|--|
| <b>162.0</b> | <b>MANUFACTURING OF SURGICAL AND MEDICAL PRODUCTS</b>                                |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |  |
| 162.1        | Manufacturing of <b>Surgical</b> and medical products                                | 10 | 25 | 15 | <b>50</b>       | 25 | 0  | 10 | <b>35</b>       | 0  | 0  | <b>0</b>        | 58.8                 | Orange   |  | IPC-V              |  |
| 162.2        | Surgical and medical products assembled only (with effluent-generating processes)    | 10 | 25 | 15 | <b>50</b>       | 0  | 0  | 0  | <b>0</b>        | 0  | 0  | <b>0</b>        | 50                   | Green    |  | IPC-V              |  |
| 162.3        | Surgical and medical products assembled only (without effluent-generating processes) | 0  | 0  | 0  | <b>0</b>        | 0  | 0  | 0  | <b>0</b>        | 0  | 0  | <b>0</b>        | 0                    | White    |  | IPC-V              |  |
| <b>163.0</b> | <b>SEMICONDUCTOR MANUFACTURING INDUSTRIES</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |  |
| 163.1        | Semiconductor fabs manufacturing   | 25 | 30 | 35 | <b>90</b>       | 35 | 30 | 0  | <b>65</b>       | 25 | 10 | <b>35</b>       | 95                   | Red      | i. Toxic wastewater is generated due to presence of Hydrofluoric acid (HF), Mixed Nitric HF (HF+HNO <sub>3</sub> ), Phosphoric acid, Sulphuric acid (H <sub>2</sub> SO <sub>4</sub> ), Hydrogen Peroxide, Isopropyl alcohol (IPA) / Methanol (Methanol Only), Stripper EKC-265 /ACT N396 (ACT N396 Only), BHF – 63 U, Choline etchant, etc.<br><br>ii. The air pollutants which are being emitted during the manufacturing process are SiH <sub>4</sub> , PH <sub>3</sub> , B <sub>2</sub> H <sub>6</sub> , HF, HBr, DCS, NF <sub>3</sub> , SF <sub>6</sub> , BCl <sub>3</sub> , Cl <sub>2</sub> , HCL, NH <sub>3</sub> , C <sub>2</sub> F <sub>6</sub> , CHF <sub>3</sub> , CF <sub>4</sub> , C <sub>4</sub> F <sub>8</sub> , C <sub>2</sub> F <sub>6</sub> etc.<br><br>iii. Process waste, used oil etc. are generated as hazardous waste. | WM-III             |  |
| 163.2        | Display fabs manufacturing   | 25 | 30 | 35 | <b>90</b>       | 25 | 30 | 0  | <b>55</b>       | 25 | 10 | <b>35</b>       | 94.5                 | Red      |  | WM-III             |  |
| 163.3        | Sensor fabs manufacturing/ Compound semiconductors/ silicon photonics                | 25 | 30 | 35 | <b>90</b>       | 25 | 30 | 0  | <b>55</b>       | 25 | 10 | <b>35</b>       | 94.5                 | Red      |  | WM-III             |  |
| 163.4        | Semiconductor Assembly, Testing, Marking and Packaging Facility (ATMP)               | 0  | 0  | 0  | <b>0</b>        | 0  | 25 | 0  | <b>25</b>       | 25 | 10 | <b>35</b>       | 43.1                 | Green    |  | WM-III             |  |
| <b>164</b>   | <b>Saw mills</b>   | 0  | 0  | 0  | <b>0</b>        | 0  | 30 | 0  | <b>30</b>       | 0  | 0  | <b>0</b>        | 30                   | Green    |  | IPC-V              |  |

| S. No.       | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks   | Concerned Division |
|--------------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---|--------------------|
| 165          | Spice grinding   | 0  | 0  | 0  | 0               | 0  | 30 | 0  | 30              | 0  | 0  | 0               | 30                   | Green    |   | IPC-V              |
| 166          | Cutting, <b>Sizing</b> and polishing of marble, granite and other stones                 | 10 | 0  | 20 | 30              | 0  | 30 | 0  | 30              | 0  | 0  | 0               | 40.5                 | Green    |   | IPC-V              |
| 167          | Manufacturing of <b>Solar</b> module/ non-conventional energy apparatus                  | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |   | IPC-V              |
| ~T~          |  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |
| <b>168.0</b> | <b>TANNERIES</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |
| 168.1        | Tanneries (Raw to finish)  | 35 | 30 | 25 | 90              | 0  | 20 | 0  | 20              | 25 | 30 | 55              | 93.8                 | Red      |   | IPC-IV             |
| 168.2        | Tanneries (Raw to wet blue)  | 35 | 30 | 25 | 90              | 0  | 20 | 0  | 20              | 25 | 30 | 55              | 93.8                 | Red      |   | IPC-IV             |
| 168.3        | Tanneries (Wet blue to finish)   | 35 | 30 | 20 | 85              | 0  | 20 | 0  | 20              | 25 | 30 | 55              | 90.6                 | Red      |   | IPC-IV             |
| 168.4        | Vegetable tanning  | 20 | 25 | 25 | 70              | 0  | 20 | 0  | 20              | 20 | 10 | 30              | 77.5                 | Orange   |   | IPC-IV             |
| <b>169.0</b> | <b>MANUFACTURING OF TOOTH POWDER, TOOTHPASTE, TALCUM POWDER AND OTHER COSMETIC ITEMS</b> |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |
| 169.1        | Manufacturing of toothpaste and other cosmetic items                                     | 20 | 25 | 20 | 65              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 73.8                 | Orange   |   | IPC-V              |
| 169.2        | Manufacturing of tooth powder, talcum powder   | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 25                   | Green    |   | IPC-V              |
| <b>170.0</b> | <b>THERMOMETER MANUFACTURING</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |
| 170.1        | Glass (mercury based) thermometer manufacturing  | 10 | 30 | 15 | 55              | 25 | 0  | 10 | 35              | 25 | 10 | 35              | 70.8                 | Orange   | Process involves making of glass bulb, forming reservoir in the glass tube for fluid, inserting fluid, scale marking. Use of fuel to heat the glass tubes and hydrofluoric acid to seal the scaling. Small quantities of spent acids are generated. | IPC-V              |
| 170.2        | Digital thermometer manufacturing  | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |   | IPC-V              |

| S. No.       | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks  | Concerned Division |
|--------------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--|--------------------|
| 171          | Manufacturing of <b>Teflon</b> -based products  | 10 | 0  | 15 | 25              | 25 | 25 | 25 | 75              | 0  | 0  | 0               | 78.1                 | Orange   | Due to spraying applications, emissions (HC) are generated   | IPC-V              |
| 172          | <b>Thermocol</b> manufacturing (with boiler)  | 0  | 20 | 15 | 35              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 58.8                 | Orange   |  | IPC-V              |
| <b>173.0</b> | <b>MANUFACTURING OF TOBACCO PRODUCTS INCLUDING CIGARETTES AND TOBACCO PROCESSES</b>                         |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 173.1        | Manufacturing of tobacco products including cigarettes and tobacco processes (with boiler)                  | 20 | 0  | 15 | 35              | 25 | 20 | 25 | 70              | 0  | 0  | 0               | 75.3                 | Orange   |  | IPC-III            |
| 173.2        | Manufacturing of tobacco products including cigarettes and tobacco processes (without boiler)               | 20 | 0  | 15 | 35              | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 41.5                 | Green    |  | IPC-III            |
| 174          | <b>Transformer</b> repairing/ manufacturing (dry process only)  | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 30 | 10 | 40              | 47.5                 | Green    |  | IPC-V              |
| 175          | <b>Tyre</b> Pyrolysis Oil Industries-Applicable for advanced batch automated process / continuous TPO units | 10 | 0  | 15 | 25              | 25 | 25 | 25 | 75              | 0  | 0  | 0               | 78.1                 | Orange   |  | WM-III             |
| 176          | <b>Tamarind</b> powder manufacturing  | 10 | 15 | 15 | 40              | 25 | 0  | 10 | 35              | 0  | 0  | 0               | 50.5                 | Green    | Dried tamarind fruits are cleaned, soaked, and boiled in steam jacketed kettle. Then pulp is extracted in pulper and dried in drum type drier. | IPC-V              |

| S. No.                | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks | Concerned Division |  |
|-----------------------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---------|--------------------|--|
| <b>177.0</b>          | <b>TEA PROCESSING AND BLENDING</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |  |
| 177.1                 | Tea processing (with boiler)  | 10 | 0  | 15 | 25              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 56.3                 | Orange   |         | IPC-III            |  |
| 177.2                 | Tea processing (without boiler)   | 10 | 0  | 15 | 25              | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 25                   | Green    |         | IPC-III            |  |
| 177.3                 | Blending and packing of tea   | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |         | IPC-V              |  |
| <b>TEXTILE SECTOR</b> |   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |  |
| <b>178.0</b>          | <b>TEXTILE INDUSTRY</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |  |
| 178.1                 | Yarn / Textile processing involving any effluent/emission generating processes including bleaching, dyeing, printing, and colouring, including the garment and apparel manufacturing industry | 30 | 30 | 30 | 90              | 25 | 0  | 35 | 60              | 30 | 20 | 50              | 95.5                 | Red      |         | IPC-III            |  |
| 178.2                 | Yarn to grey fabric manufacturing with water jet machines   | 20 | 25 | 25 | 70              | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 70                   | Orange   |         | IPC-III            |  |
| 178.3                 | Garment and apparel manufacturing industry including Doubling / Reeling / TFO-Two for one unit (dry process)-with boiler  | 0  | 0  | 0  | 0               | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 50                   | Green    |         | IPC-III            |  |
| 178.4                 | Garment and apparel manufacturing industry including Doubling / Reeling / TFO-Two for one unit (dry process)-without boiler   | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |         | IPC-III            |  |
| <b>179.0</b>          | <b>SAREE/FABRIC PRINTING BY SCREEN / WOODEN BLOCK /HAND BLOCK</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |  |
| 179.1                 | Saree/fabric printing by screen / wooden block/hand block   | 25 | 0  | 25 | 50              | 25 | 0  | 20 | 45              | 30 | 10 | 40              | 71.3                 | Orange   |         | IPC-III            |  |
| 179.2                 | Hand block printing without effluent generation   | 0  | 0  | 0  | 0               | 25 | 0  | 20 | 45              | 0  | 0  | 0               | 45                   | Green    |         | IPC-III            |  |

| S. No.       | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks | Concerned Division |  |
|--------------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---------|--------------------|--|
| <b>180.0</b> | <b>TEXTILE SPINNING, SIZING AND WEAVING MILLS</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |  |
| 180.1        | Textile spinning, sizing and weaving mills (wastewater generation $\geq$ 10 KLD)                         | 10 | 20 | 20 | 50              | 25 | 0  | 15 | 40              | 0  | 0  | 0               | 60                   | Orange   |         | IPC-III            |  |
| 180.2        | Textile spinning, sizing and weaving mills (wastewater generation <10 KLD)                               | 10 | 20 | 15 | 45              | 25 | 0  | 10 | 35              | 0  | 0  | 0               | 54.6                 | Green    |         | IPC-III            |  |
| 181          | <b>Power looms</b> (without dye and bleaching)   | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 25                   | Green    |         | IPC-III            |  |
| <b>182.0</b> | <b>REPROCESSING OF WASTE TEXTILE FABRIC</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |  |
| 182.1        | Integrated facility for reprocessing of waste textile fabric (including washing, bleaching, dyeing etc.) | 30 | 30 | 20 | 80              | 25 | 25 | 15 | 65              | 0  | 0  | 0               | 86.5                 | Red      |         | IPC-III            |  |
| 182.2        | Reprocessing of waste textile fabric (dry process)   | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 25                   | Green    |         | IPC-III            |  |
| 183          | <b>Cotton and woollen Hosiery</b> making (Dry process only without any dyeing / washing operation)       | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0                    | White    |         | IPC-V              |  |
| ~W~          |  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |         |                    |  |
| 184          | Seasoning of <b>Wood</b> in steam heated chamber   | 0  | 0  | 0  | 0               | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 50                   | Green    |         | IPC-V              |  |
| 185          | Pulverization of bamboo and scrap <b>Wood</b>  | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 25                   | Green    |         | IPC-V              |  |
| 186          | Distilled <b>Water</b> (without boiler) with electricity as source of heat                               | 0  | 20 | 20 | 40              | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 40                   | Green    |         | IPC-V              |  |

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| S. No. | Sector   | W1 | W2 | W3 | PI <sub>W</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks     | Concerned Division |
|--------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|-------------|--------------------|
| 187    | Purification of <b>Water</b> and packaging (mineralized/non-mineralized water) | 0  | 20 | 25 | 45              | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 45                   | Green    | RO Rejects. | IPC-V              |



**ANNEXURE-II**

**(LIST OF ESSENTIAL ENVIRONMENTAL SERVICES)**

**LIST OF ESSENTIAL ENVIRONMENTAL SERVICES****i. Essential Environmental Services for Industrial Waste Management**

| S. No.     | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks  | Concerned Division |
|------------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--|--------------------|
| <b>1.0</b> | <b>COMMON EFFLUENT TREATMENT PLANT (CETP)</b>                          |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 1.1        | CETP having MEE/spray drier  | 30 | 30 | 35 | 95              | 25 | 0  | 25 | 50              | 25 | 50 | 75              | 98.1                 | Red      |  | IPC-VII            |
| 1.2        | CETP (without having MEE/spray drier), Common MEE/common spray driers  | 25 | 30 | 30 | 85              | 0  | 0  | 0  | 0               | 25 | 30 | 55              | 89.1                 | Red      |  | IPC-VII            |
| 1.3        | Common Sewage-Effluent Treatment Plant (CSETP)                         | 25 | 30 | 30 | 85              | 0  | 0  | 0  | 0               | 25 | 20 | 45              | 88.4                 | Red      |  | WQM-I & IPC-VII    |
| 2.0        | Effluent conveyance projects   | 20 | 30 | 35 | 85              | 0  | 0  | 0  | 0               | 25 | 10 | 35              | 87.6                 | Red      | Such projects during O&M operation will generate deposited sludge, spillage etc. in addition regular operation of handling of effluent and its disposal. | IPC-VII            |
| <b>3.0</b> | <b>COMMON HAZARDOUS WASTE TREATMENT, STORAGE AND DISPOSAL FACILITY</b> |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 3.1        | Integrated facility (Secured landfill and incinerator)                 | 35 | 30 | 15 | 80              | 25 | 25 | 15 | 65              | 30 | 70 | 100             | 100.0                | Red      |  | WM-II              |
| 3.2        | Only secured landfill  | 35 | 30 | 15 | 80              | 0  | 25 | 0  | 25              | 25 | 70 | 95              | 97.6                 | Red      |  | WM-II              |
| 3.3        | Only incinerator   | 35 | 30 | 15 | 80              | 25 | 25 | 15 | 65              | 30 | 70 | 100             | 100.0                | Red      |  | WM-II              |
| <b>4.0</b> | <b>COMMON BIO-MEDICAL WASTE TREATMENT FACILITY (CBWTF)</b>             |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 4.1        | CBWTF  | 20 | 25 | 20 | 65              | 35 | 20 | 25 | 80              | 20 | 20 | 40              | 90.5                 | Red      |  | WM-I               |
| 4.2        | CBWTF using cleaner/gaseous fuel                                       | 20 | 25 | 20 | 65              | 35 | 20 | 10 | 65              | 20 | 20 | 40              | 83.4                 | Red      |  | WM-I               |

**ii. LIST OF BLUE CATEGORY SECTORS- Essential Environmental Services for Domestic/Household Activities:**

| S. No.   | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks  | Concerned Division |
|--|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--|--------------------|
| <b>1.0 MUNICIPAL SOLID WASTE MANAGEMENT FACILITY</b>                     |  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 1.1  | Municipal Solid Waste Management Facility (Sanitary landfill/ Integrated Sanitary landfill with material recycling facility/ refused derived fuel, etc.) | 35 | 30 | 15 | 80              | 35 | 25 | 0  | 60              | 0  | 0  | 0               | 86.0                 | Blue     |  | UPC-II             |
| 1.2  | Waste to energy power plants   | 0  | 15 | 30 | 45              | 35 | 25 | 35 | 95              | 10 | 50 | 60              | 97.6                 | Blue     |  | UPC-II             |
| 1.3  | Bio-mining of legacy waste projects  | 35 | 30 | 25 | 90              | 35 | 25 | 0  | 60              | 0  | 0  | 0               | 93.0                 | Blue     |  | UPC-II             |
| 1.4  | Municipal Solid Waste Bio-methanation plant (Quantity of MSW $\geq$ 5 TPD)   | 30 | 25 | 25 | 80              | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 82.0                 | Blue     |  | UPC-II             |
| 1.5  | Municipal Solid Waste Composting Facility (Quantity of MSW $\geq$ 5 TPD)   | 30 | 25 | 15 | 70              | 0  | 30 | 0  | 30              | 0  | 0  | 0               | 74.5                 | Blue     |  | UPC-II             |
| 1.6  | Municipal Solid Waste Material Recovery Facility (Quantity of MSW $\geq$ 5 TPD)  | 20 | 25 | 15 | 60              | 0  | 30 | 0  | 30              | 0  | 0  | 0               | 66.0                 | Blue     |  | UPC-II             |
| <b>2.0 Construction and Demolition (C&amp;D) Waste Processing Plants</b> |  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 2.0  | Construction and Demolition (C&D) Waste Processing Plants  | 10 | 0  | 15 | 25              | 25 | 25 | 0  | 50              | 0  | 0  | 0               | 56.3                 | Blue     | Wastewater of high TDS of inorganic nature is generated. | UPC-I              |
| <b>3.0 SEWAGE TREATMENT PLANT</b>  |  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |
| 3.1  | Sewage Treatment Plant (5 MLD and above)   | 20 | 0  | 35 | 55              | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 59.5                 | Blue     |  | WQM-I              |
| 3.2  | Sewage Treatment Plant (less than 5 MLD)   | 20 | 0  | 25 | 45              | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 50.5                 | Blue     |  | WQM-I              |



**ANNEXURE-III**  
**(LIST OF SERVICE/INFRASTRUCTURE DEVELOPMENT SECTORS**  
**CLASSIFIED UNDER RED, ORANGE, GREEN, AND WHITE**  
**CATEGORIES)**



**SERVICE/INFRASTRUCTURE DEVELOPMENT SECTORS**

| S. No. | Sector  | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks   | Concerned Division |  |
|--------|---|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---|--------------------|--|
| 1.0    | <b>STANDALONE GENERATOR SET (Genset)</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |  |
| 1.1    | Genset(s) of total capacity $\geq$ 1 MVA, using liquid fuel                                     | 0  | 0  | 0  | 0               | 25 | 0  | 25 | 50              | 30 | 10 | 40              | 60.0                 | Orange   | i. Standalone genset(s) of total capacity less than 1000 KVA may not require additional classification. The used oil/waste oil generated during repair and maintenance need to be disposed through authorized hazardous waste recycler by service provider/OEM.<br><br>ii. Projects such data centers etc. having pollution potential due to gensets only, may be classified based on the capacity and fuel used. | UPC-I              |  |
| 1.2    | Genset(s) of total capacity $\geq$ 1 MVA, using cleaner/gaseous fuel                            | 0  | 0  | 0  | 0               | 25 | 0  | 10 | 35              | 30 | 10 | 40              | 50.5                 | Green    |   | UPC-I              |  |
| 2.0    | Airports  | 20 | 0  | 35 | 55              | 25 | 0  | 25 | 50              | 30 | 10 | 40              | 75.3                 | Orange   | Airports generates mainly domestic sewage as wastewater. Emissions and generation of hazardous waste due to overall operations in airport are considered.   | UPC-I              |  |
| 3.0    | <b>HEALTH CARE FACILITIES (HCFs, AS DEFINED UNDER BIO-MEDICAL WASTE MANAGEMENT RULES, 2016)</b> |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |  |
| 3.1    | HCFs with captive incinerator, irrespective of number of beds                                   | 20 | 0  | 15 | 35              | 35 | 20 | 25 | 80              |    |    | 50              | 88.5                 | Red      | Sector generates bio-medical waste. As per methodology scores assigned to H.  | WM-I               |  |
| 3.2    | more than 1000 bedded HCFs  | 20 | 0  | 35 | 55              | 0  | 0  | 0  | 0               |    |    | 100             | 100.0                | Red      |   | WM-I               |  |
| 3.3    | 501 to 1,000 bedded HCFs  | 20 | 0  | 30 | 50              | 0  | 0  | 0  | 0               |    |    | 80              | 85.0                 | Red      |   | WM-I               |  |
| 3.4    | 201 to 500 bedded HCFs  | 20 | 0  | 30 | 50              | 0  | 0  | 0  | 0               |    |    | 60              | 70.0                 | Orange   |   | WM-I               |  |
| 3.5    | 51 to 200 bedded HCFs   | 20 | 0  | 20 | 40              | 0  | 0  | 0  | 0               |    |    | 50              | 60.0                 | Orange   |   | WM-I               |  |
| 3.6    | 11 to 50 bedded HCFs  | 20 | 0  | 20 | 40              | 0  | 0  | 0  | 0               |    |    | 40              | 52.0                 | Green    |   | WM-I               |  |
| 3.7    | Up to 10 bedded HCFs  | 20 | 0  | 15 | 35              | 0  | 0  | 0  | 0               |    |    | 30              | 44.8                 | Green    |   | WM-I               |  |
| 3.8    | Non-bedded HCFs   | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               |    |    | 25              | 25.0                 | Green    |   | WM-I               |  |

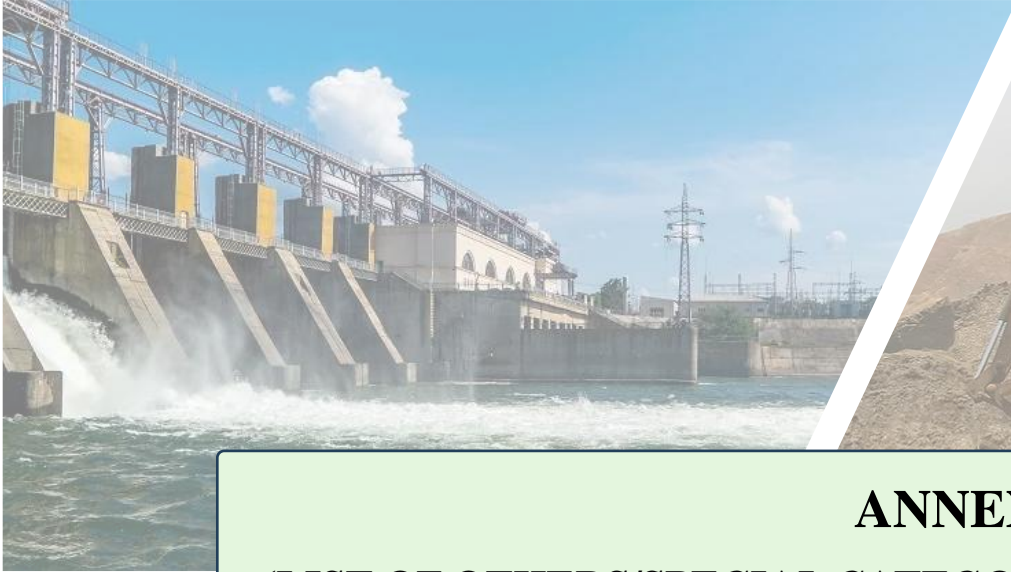
| S. No. | Sector   | W1 | W2 | W3 | PI <sub>W</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks   | Concerned Division |  |
|--------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---|--------------------|--|
| 4.0    | <b>HOTELS/BANQUET HALLS HAVING ROOM FACILITY</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |  |
| 4.1    | Hotels (above 3 star) or having 100 & above rooms  | 20 | 25 | 30 | 75              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 81.3                 | Red      |   | UPC-I              |  |
| 4.2    | Hotels (above 3 star) or having 100 & above rooms (based on cleaner /gaseous fuel)   | 20 | 25 | 30 | 75              | 25 | 0  | 10 | 35              | 0  | 0  | 0               | 79.4                 | Orange   |   | UPC-I              |  |
| 4.3    | Hotels (up to 3 star) or having more than 20 rooms but less than 100 rooms.  | 20 | 25 | 20 | 65              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 73.8                 | Orange   |   | UPC-I              |  |
| 4.4    | Up to 20 rooms   | 10 | 25 | 15 | 50              | 0  | 0  | 10 | 10              | 0  | 0  | 0               | 52.5                 | Green    |   | UPC-I              |  |
| 5.0    | <b>RAILWAY LOCOMOTIVE WORK SHOP/ INTEGRATED ROAD TRANSPORT WORKSHOP/ AUTHORIZED SERVICE CENTERS</b>                                |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |  |
| 5.1    | Railway locomotive work shop/ Integrated road transport workshop/ Authorized service centers (wastewater generation $\geq$ 10 KLD) | 20 | 25 | 25 | 70              | 30 | 25 | 0  | 55              | 30 | 10 | 40              | 84.3                 | Red      |   | IPC-V              |  |
| 5.2    | Railway locomotive work shop/ Integrated road transport workshop/ Authorized service centers (wastewater generation $<$ 10 KLD)    | 20 | 25 | 15 | 60              | 30 | 25 | 0  | 55              | 30 | 10 | 40              | 79.0                 | Orange   |   | IPC-V              |  |
| 6.0    | <b>RAILWAY STATIONS</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |  |
| 6.1    | Railway Stations (Wastewater Generation $\geq$ 5 MLD)  | 20 | 0  | 35 | 55              | 25 | 0  | 25 | 50              | 30 | 10 | 40              | 75.3                 | Orange   | Wastewater generating from public toilets, public taps, platform, and apron washing, coach cleaning, laundry, restaurants etc.<br><br>Emissions and generation of hazardous waste due to overall operations are considered. | UPC-I              |  |
| 6.2    | Railway Stations (Wastewater Generation $\geq$ 100 KLD, but $<$ 5 MLD)   | 20 | 0  | 15 | 35              | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 35.0                 | Green    | Wastewater generating from various domestic uses as public toilets, public taps, platforms, and apron washing, restaurants etc.   | UPC-I              |  |

| S. No. | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks   | Concerned Division |  |
|--------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---|--------------------|--|
| 7.0    | <b>RAILWAY SIDINGS</b>   |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |  |
| 7.1    | Railway sidings / Mineral stock yard   | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 25.0                 | Green    | Fugitive emissions due to loading, unloading, storage and transportation of the minerals.   | UPC-I              |  |
| 7.2    | Railway sidings only for defence purpose   | 0  | 0  | 0  | 0               | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 0.0                  | White    |   | UPC-I              |  |
| 8.0    | <b>PORTS AND HARBOURS</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |  |
| 8.1    | Ports and harbours, jetties and dredging operations  | 20 | 30 | 25 | 75              | 0  | 25 | 0  | 25              | 30 | 20 | 50              | 84.4                 | Red      |   | WM-I               |  |
| 8.2    | Ports and harbours (only containers handling)/ Captive jetties   | 20 | 25 | 20 | 65              | 0  | 25 | 0  | 25              | 30 | 10 | 40              | 76.4                 | Orange   |   | WM-I               |  |
| 9.0    | Automobile service stations/ workshops   | 20 | 25 | 20 | 65              | 20 | 0  | 0  | 20              | 30 | 10 | 40              | 75.5                 | Orange   |   | IPC-V              |  |
| 10.0   | <b>BUILDING CONSTRUCTION PROJECTS</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |  |
| 10.1   | Building construction project ≥ 20,000 sq. m. built-up area  | 20 | 0  | 25 | 45              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 61.3                 | Orange   | i. During the construction phase, the sector is mainly air polluting. However, in post construction phase it is mainly water polluting due to generation of sewage. Consent to Establish/Operate to be taken as per EC conditions, as applicable.<br><br>ii. Building construction project ≥ 5,000 sq. m., but < 20,000 sq. m. built-up area (with connectivity to terminal STP) may not require separate classification.<br><br>iii. For projects < 5000 the wastewater shall be managed according to on-site sanitation methods as mentioned in the Manual on Sewerage and Sewage Treatment System (2013), published by the | UPC-I              |  |
| 10.2   | Building construction project ≥ 5,000 sq. m., but < 20,000 sq. m. built-up area (without connectivity to terminal STP) | 20 | 0  | 20 | 40              | 0  | 0  | 0  | 0               | 0  | 0  | 0               | 40.0                 | Green    |   | UPC-I              |  |

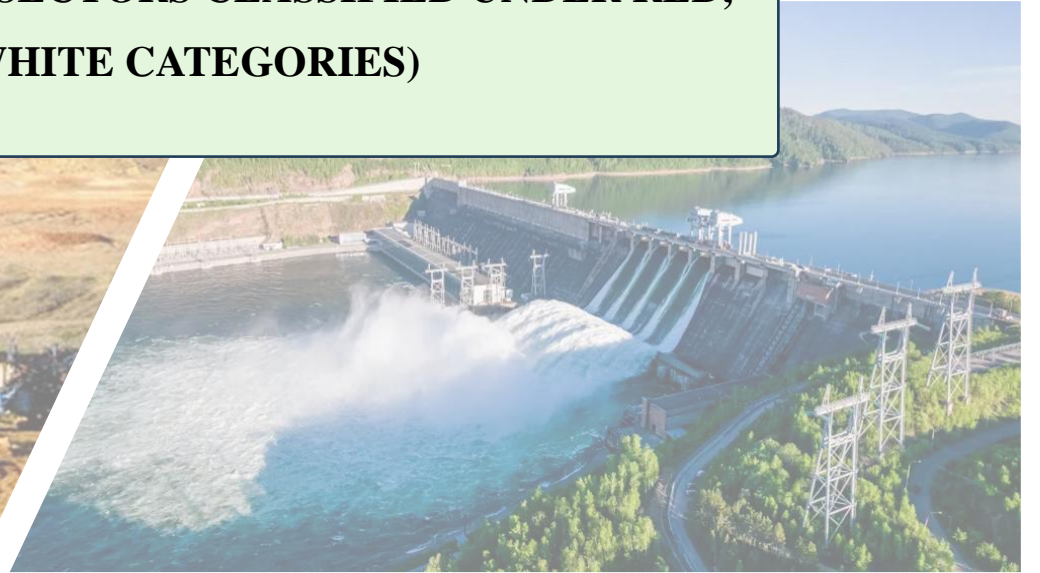
| S. No. | Sector   | W1 | W2 | W3 | PI <sub>W</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks   | Concerned Division |
|--------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---|--------------------|
|        |  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          | Central Public Health and Environmental Engineering Organisation (CPHEEO), and as amended from time to time.  |                    |
| 11.0   | Standalone mechanized laundry (using boiler)                             | 20 | 0  | 20 | 40              | 25 | 0  | 25 | 50              | 0  | 0  | 0               | 60.0                 | Orange   |   | IPC-V              |
| 12.0   | New highway construction project   | 0  | 0  | 0  | 0               | 25 | 25 | 25 | 75              | 0  | 0  | 0               | 75.0                 | Orange   | Such projects involve use of hot mix plants, ready-mix concrete plants, construction activities generating fugitive emissions, etc.   | UPC-I              |
| 13.0   | <b>DAIRY FARM</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |   |                    |
| 13.1   | Dairy Farm (having more than 500 animals)                                | 30 | 25 | 25 | 80              | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 82.0                 | Red      | Dairy farms having less than 15 animals do not require separate classification.   | IPC-IV             |
| 13.2   | Dairy Farm (having 101 to 500 animals)                                   | 30 | 25 | 20 | 75              | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 77.5                 | Orange   |   | IPC-IV             |
| 13.3   | Dairy Farm (having 15 to 100 animals)                                    | 30 | 25 | 15 | 70              | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 73.0                 | Orange   |   | IPC-IV             |
| 14.0   | Gold Assaying & Hallmarking Centres                                      | 0  | 0  | 0  | 0               | 35 | 0  | 0  | 35              | 25 | 10 | 35              | 46.4                 | Green    | Lead oxide, nitrous fumes are generated during cupellation and parting acid treatment, respectively contributing to the air emissions. The hazardous waste is generated during fire assay in the form of spent cupels bearing lead, spent acid, scrubbed water etc. | IPC-V              |
| 15.0   | Facility of handling, storage, and transportation of food grains in bulk | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 25.0                 | Green    |   | IPC-V              |
| 16.0   | Flyash export or disposal operations                                     | 0  | 0  | 0  | 0               | 0  | 25 | 0  | 25              | 0  | 0  | 0               | 25.0                 | Green    |   | IPC-V              |

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| S. No. | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks | Concerned Division |
|--------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|---------|--------------------|
| 17.0   | Oil and gas transportation pipeline (excluding pipeline covered under definition of isolated storage of hazardous chemicals, as per Manufacture, Storage, and Import of Hazardous Chemicals Rules, 1989) | 0  | 0  | 0  | 0               | 25 | 0  | 10 | 35              | 0  | 0  | 0               | 35.0                 | Green    |         | IPC-I              |
| 18.0   | Gaushalas  | 20 | 0  | 15 | 35              | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 41.5                 | Green    |         | IPC-IV             |
| 19.0   | Household bio-digesters/gobar-gas (cow-dung) plants based on biodegradable wastes, etc.  | 0  | 0  | 0  | 0               | 0  | 20 | 0  | 20              | 0  | 0  | 0               | 20.0                 | White    |         | IPC-V              |



**ANNEXURE-IV**  
**(LIST OF OTHERS/SPECIAL CATEGORY SECTORS CLASSIFIED UNDER RED, ORANGE, GREEN, AND WHITE CATEGORIES)**



**OTHERS/SPECIAL CATEGORY SECTORS**

| S. No. | Sector   | W1 | W2 | W3 | PI <sub>w</sub> | A1 | A2 | A3 | PI <sub>A</sub> | H1 | H2 | PI <sub>H</sub> | Pollution Index (PI) | Category | Remarks  | Concerned Division |  |
|--------|--|----|----|----|-----------------|----|----|----|-----------------|----|----|-----------------|----------------------|----------|--|--------------------|--|
| 1.0    | <b>HYDEL POWER PLANTS INCLUDING PUMPED STORAGE PROJECTS</b>  |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |  |
| 1.1    | Hydel power plants (Capacity > 50 MW)  |    |    |    |                 |    |    |    |                 |    |    |                 |                      | Red      | PI may be considered as 90.  | IPC-II             |  |
| 1.2    | Mini Hydel power plants (Capacity from more than 25 MVA and up to 50 MW)                                     |    |    |    |                 |    |    |    |                 |    |    |                 |                      | Orange   | PI may be considered as 67.5.  | IPC-II             |  |
| 1.3    | Mini Hydel power plants (Capacity ≤ 25 MW)   |    |    |    |                 |    |    |    |                 |    |    |                 |                      | White    | PI may be considered as 12.5.  | IPC-II             |  |
| 2.0    | <b>SAND / RIVERBED MATERIAL MINING FROM RIVERBED AND ITS FLOODPLAINS (excluding manual excavation)</b>       |    |    |    |                 |    |    |    |                 |    |    |                 |                      |          |  |                    |  |
| 2.1    | Mining lease area more than 5 hectares or Mining lease area up to 5 hectares which is part of cluster mining |    |    |    |                 |    |    |    |                 |    |    |                 |                      | Red      | i. Sand / riverbed material mining from riverbed and its floodplains may cause ecological disturbances, erosion of riverbed, change in hydro-geological conditions & river ecosystem, etc.   | IPC-II             |  |
| 2.2    | Standalone mining lease area up to five hectares in areas (not a part of any cluster mining)                 |    |    |    |                 |    |    |    |                 |    |    |                 |                      | Orange   | ii. Cluster mining means that the distance of mining lease area is less than 500 m from periphery of another lease area.<br><br>iii. This categorization is made considering the ecological damages and not based on pollution potential/index.<br><br>iv. Cluster mining as defined in 'Enforcement & Monitoring Guidelines for Sand Mining, 2020', issued by MoEF&CC.<br><br>v. PI may be considered as 90 and 67.5 for red and orange category, respectively. | IPC-II             |  |

**FORMAT FOR SUBMISSION OF INFORMATION BY SPCBS/PCCS REGARDING SECTORS**

**CLASSIFIED UNDER WHITE CATEGORY**

| S. No. | Sector | Water Pollutant Score (PI <sub>w</sub> ) |    |    |   | Air Pollutant Score (PI <sub>A</sub> ) |    |    |   | Waste Pollutant Score (PI <sub>H</sub> ) |    |   | Pollution Index (PI) | Remarks<br>(including brief description of process and pollution potential) |
|--------|--------|--|----|----|---|--|----|----|---|--|----|---|----------------------|---|
|        |        | W1                                       | W2 | W3 | W | A1                                     | A2 | A3 | A | H1                                       | H2 | H |                      |   |
|        |        |  |    |    |   |  |    |    |   |  |    |   |                      |   |
|        |        |  |    |    |   |  |    |    |   |  |    |   |                      |   |
|        |        |  |    |    |   |  |    |    |   |  |    |   |                      |   |
|        |        |  |    |    |   |  |    |    |   |  |    |   |                      |   |
|        |        |  |    |    |   |  |    |    |   |  |    |   |                      |   |



**A tool for progressive environmental Management**



**Central Pollution Control Board**

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