

**STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), BIHAR**

2<sup>nd</sup> Floor, BELTRON Bhawan, Shastri Nagar, Patna -- 800023.

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Ref. No. - 38

Patna Dated: - 07/02/2022

**MINUTES OF 06<sup>th</sup> MEETING OF STATE LEVEL EXPERT APPRAISAL  
COMMITTEE (SEAC). BIHAR CONSTITUTED ON 12.08.2021**

VENUE: SEIAA Office

DATE: 29<sup>th</sup> January, 2022

**Minutes/Proceeding of the Meeting**

- 1. Opening Remarks of the Chairman:** The Chairman and Members extended warm welcome with each other and other participants of the meeting. Thereafter, the meeting was opened to start proceeding as per the agenda adopted for this meeting.
- 2. Confirmation of Minutes of 5<sup>th</sup> Meeting (05/2022)** vide Ref. No.10, dated 18.01.2022 of State Expert Appraisal Committee held on 06<sup>th</sup>, 07<sup>th</sup> & 08<sup>th</sup> January, 2022. The State Expert Appraisal Committee, hereinafter called the SEAC, was informed that no representation has been received regarding projects considered in meeting held on 06<sup>th</sup>, 07<sup>th</sup> & 08<sup>th</sup> January, 2022. Minutes of meeting of SEAC were confirmed.
- 3. Consideration of Proposals:** The SEAC considered proposals as per the agenda adopted for 06<sup>th</sup> meeting (06/2022) vide ref no. 13 dated- 20.01.2022. The key points of deliberations held were as follows.
- 4.** With regards to the proposals submitted for the real-estate/ apartment/ residential building projects, industry, etc. the Committee members did take stock of the land use plan of the project area, as per the Patna Master Plan. Further various issues, concerning the green area to residential flats ratio, status of Waste Management and installation of alternative electric charging points etc. were thoroughly discussed.

### Consideration of Auto ToR Proposal

#### AGENDA ITEM NO. 1

**Proposed Setting up a Formaldehyde manufacturing unit at Samastipur Industrial Area, Plot no – 84 to 92, Harpur Alloth District:-Samastipur, State:- Bihar, by M/s Samrat Laboratories (Total Capacity: 100 MTPD) – Reg. Terms of Reference (File No.: SIA/5(f)/1714/2021, Proposal No: SIA/BR/IND3/69464/2021)**

**Environment Consultant: -Rian Enviro Private Limited**

Application along with filled up Form - I, and Pre-Feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 29<sup>th</sup> November, 2021 for obtaining Terms of reference (ToR). Auto ToR has been generated by PARIVESH portal vide File No. SIA/5(f)/1714/2021, dated 29.11.2021.

The Project Proponent along with its environmental consultant Rian Enviro Private Limited), made a presentation on the key parameters and salient features of the project. Based on discussion, the Committee found their presentation and proposal satisfactory and acceptable, hence the Committee decided to recommend the proposed proposal for grant of Terms of Reference subject to the following special conditions in addition to the Auto ToR generated by PARIVESH portal.

- I. Study cumulative impact assessment and carrying capacity to all existing and proposed project.
- II. Prepare the storage plan as per the seismic zone.
- III. Submit the land permission certificate/letter from BIADA in respect of allowing such type of activity.
- IV. Submit the organic pollutant profile in respect of the proposed and existing proposal.
- V. Prepare the production plan regarding existing and proposed Project that both are separate from each other.
- VI. Prepare the Risk assessment plan especially in regard to underground storage tank.
- VII. Submit details of a Comprehensive Disaster Management Plan including emergency evacuation during natural or man-made disasters.

- VIII. Examine separately the details for the construction and operation phase both for Environment Management Plan and Environmental Monitoring plan with cost.

## **AGENDA ITEM NO. 2**

**Proposed Bihar Animal Sciences University at Patna, District:- Patna, State:- Bihar; (Total Plot Area: 9,06,496 m<sup>2</sup>, Total Built-up Area: - 2,44,798.48 m<sup>2</sup>)- Reg. Terms of Reference**

**(File No.: SIA/8(b)/1851/2021, Proposal No: SIA/BR/MIS/70669/2021)**

**Environment Consultant: - Rian Enviro Private Limited.**

Application along with filled up Form - I, Form - I (A) and Conceptual Plan in the prescribed format was submitted to SEIAA, Bihar on 31<sup>st</sup> December, 2021 for obtaining Terms of reference (ToR). Auto ToR has been generated by PARIVESH portal vide File No. SIA/8(b)/1851/2021, dated 14.01.2022.

The Project Proponent along with its environmental consultant Rian Enviro Private Limited), made a presentation on the key parameters and salient features of the project. Based on discussion, the Committee found that their presentation and proposal are satisfactory and acceptable, hence the Committee decided to recommend the proposed proposal for grant of Terms of Reference subject to the following special conditions in addition to the Auto ToR generated by PARIVESH portal.

- I. Prepare a plan for creation of designated greenbelt area (green island) work of demolition of old structures should start from the opposite end of the green island so that wild fauna sheltered therein may take refuge in the island.
- II. Prepare a plan regarding Storm Water Management, Sewage Treatment Plant (STP), Effluent Treatment Plant (for the effluents generated from the laboratories) Groundwater recharge points, Rainwater Harvesting, Biomedical Waste Management Hazardous Waste Management, Biogas, Manure, Solar energy, etc.
- III. Prepare a plan regarding existing flora and fauna in the campus for its conservation.



- IV. Submit a copy of the contour map with slopes, drainage pattern of the site, and the surrounding area together with obstruction of the same by project, if any.
- V. Submit species wise details GBH (Girth at Breast Height), of the trees to be felled for the project.
- VI. No tree should be felled. Instead all the trees should be translocated at a suitable site within the Project Premises."Effort should be made to conserve the trees by modifying the layout/design, particularly the older trees which often are habitats of many avi/cavity nesting fauna. If inevitable, felling should be planned with permission and under the guidance of Forest Department."
- VII. Examine separately the details for construction and operation phase both for Environment Management Plan and Environmental Monitoring plan with cost.

#### **Consideration of ToR Proposal**

#### **AGENDA ITEM NO. 3**

**Proposed Stone Mining Project of Jalwa Quartz, Quartzite (Silica Stone) at Village Bishunpur, P.S- Piri Bazar, District Lakhisarai (Bihar) at Village:-Bishunpur, P.S:- PiriBazar, District:-Lakhisarai, State:-Bihar,by M/S IDIO Construction & Industries (INDIA) Limited;(Total Area: 19.80 Ha) – Reg. Terms of Reference (File No.: SIA/1(a)/1715/2021, Proposal No.: SIA/BR/MIS/69414/2021).**

Application along with filled up Form - I, Pre-Feasibility Report and Environment Management Plan in the prescribed format was submitted to SEIAA, Bihar on 16<sup>th</sup> December, 2021 for obtaining Terms of reference (ToR).

The application applied by Shri Raman Jee Jha as an authorized signatory on behalf of M/sIDIO Construction & Industries (INDIA) Ltd, Patna.

The committee received a representation from Shri Awadhesh Kumar claiming to be the authorized Managing Director of the said M/s IDIO Construction & Industries (INDIA) Ltd. has raised objections regarding the proprietary-ship of the Company. He also claimed that he never authorized the instant applicant Shri Raman Jee Jha as a signatory for applying for the ToR application on behalf of M/s IDIO Construction & Industries (INDIA) Ltd., Patna.

The Committee also noted that Shri Raman Jee Jha has not submitted the authorization in proper format and copy of the recent (latest) resolution of the Board of Directors the said Company under reference.

The Committee therefore returned the proposal in present form and directed Shri Raman Jee Jha to submit the latest resolution of board of the said Company as well as the certified copy of the khatiyani of the lease land. In the mean while the SEAC decided that SEIAA has to write to Ministry of Corporate Affairs, Govt (MCA) to get the certified copy of the documents to prove the legal validity of the said company and its Board of Directors.

#### **AGENDA ITEM NO. 4**

**Proposed Common Bio-Medical Waste Treatment Facility at Mauza:-Ainio, Tehsil:- Fatuha, District:- Patna, State:- Bihar; by M/s S. R. Solutions (Total Plot Area:- 1.0 Acre) – Reg. Terms of Reference**


**(File No.: SIA/7(da)/1850/2021, Proposal No.:SIA/BR/MIS/70457/2021).**

**Environment Consultant: -Shivalik Solid Waste Management Limited.**

Application along with filled up Form - I, Pre-Feasibility Report and Environment Management Plan in the prescribed format was submitted to SEIAA, Bihar on 27<sup>th</sup> December, 2021 for obtaining Terms of reference (ToR).

The Project Proponent along with its environmental consultant (Shivalik Solid Waste Management Limited), made a presentation on the key parameters and salient features of the project. Based on discussion, the Committee found the applicant M/s- S. R. Solutions had earlier applied an application for Term of reference (ToR ) on 21.04.2017.

"From the records/minutes of earlier SEAC it appears that proposal was considered by the SEAC in its meeting held on 17<sup>th</sup> and 18<sup>th</sup> June, 2017. The SEAC decided to refer the matter to Bihar State Pollution Control Board, Patna for examining the siting criteria as required by the revised guidelines of MoEF&CC under the Bio-Medical Waste Management Rule, 2016. Vide Letter B-46, dated-02.02.2018, the prescribed Authority (here Bihar State Pollution Control Board) has clarified the position and has stated that: -



- a) A three-member sub-committee exists in the State of Bihar which is empowered to select suitable site under the provision of Bio-Medical Waste Management Rule, 2016.
- b) All the three Common Bio-Medical Waste Treatment Facility working in the State had their site selected through inviting tenders (expression of interest) by State Health Society.
- c) Bihar State Pollution Control Board has felt it necessary to have one additional Common Bio-Medical Waste Treatment Facility for Patna, due to numbers of beds exceeding 10,000 in Indira Gandhi Institute of Medical Sciences itself and present Common Bio-Medical Waste Treatment Facility of Indira Gandhi Institute of Medical Sciences it to be shifted to a new location in Baria.

After deliberation on issue in the light of the prescribed provisions the SEAC has rejected the application as the site proposed to be used for establishing the facility have not been selected by due process provided under revised guidelines.

The SEIAA discussed the proposal in the light of rule 17 of the Bio-Medical Waste Management Rules, 2016 "Revised Guidelines for CBMWTF and Disposal Facilities -21<sup>st</sup> December, 2016" published by Central Pollution Control Board, New Delhi and referred letter of State Pollution Control Board (prescribed Authority.) Upon discussion it was felt that in the present case selection of prospective operator and site does not conform appropriately with the present rule, guidelines and clarification made available by the Prescribed Authority; hence resolved to reject the proposal as recommended by the SEAC however the applicant is at liberty to submit its application afresh after due selection process of the agency/site". The Committee sought the following information from the Project Proponent:

- I. The Project Proponent has to select the site in consultation with the Bihar State Pollution Control Board (BSPCB) as prescribed in the guidelines of Central Pollution Control Board (CPCB). And the BSPCB has to obtain information from the State Health Society about the floating of Expression of Interest (EoI) for establishing CBWTF in the Government, if any, as per the direction of the Chief Secretary, Govt. of Bihar as produced by the applicant.



## AGENDA ITEM NO. 5

**Proposed Metallurgical Industries (ferrous & non ferrous) at Mauza:-Khirodharpur, Thana No.- 23, Near Industrial Area, Fatuha, District:- Patna, State:- Bihar; by M/s Tejas Iron and Steel Private Limited (Total Proposed Capacity of TMT TOR/Bar Rods:- 3,00,000 MT/Annum) – Reg. Terms of Reference (File No.: SIA/3(a)/1849/2021, Proposal No.: SIA/BR/MIS/69974/2021).**

Application along with filled up Form - 1, Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 21<sup>st</sup> December, 2021 for obtaining Terms of Reference (ToR) and subsequent grant of EC for new proposed site of Tejas Iron Pvt. Ltd.

M/s Tejas Iron & Steel Private Limited has applied for CTE for establishment of 300000 TPA re-rolling mill project on 10<sup>th</sup> Oct.'2020 at Mauza Raipura, Near Industrial Area, Fatuha, Dist. Patna, site inspection was done by BSPCB. BSPCB has stayed the application as per O.M. MoEFCC letter vide F. No. IA-J-1-11013/8/2019-IA-II(I) Dated: 22<sup>nd</sup> Oct.'2020, regarding obtaining E.C for rerolling mill project as per, EIA Notification 2006 and amendments thereof. In anticipation of grant of NOC from BSPCB, project proponent has initiated some activities at site. Based on direction from BSPCB on CTE application, Project Proponent has applied for EC, TOR was granted by SEIAA Bihar vide F. No. SIA/3(a)/1272/2020 Dated: 04.02.2021. EIA Study was conducted and Public Hearing for the proposal was successfully conducted on 14<sup>th</sup> Sep.2021, at Murli Manohar RajyakritUcch Vidyalaya, Station Road, Fatuha, Dist. Patna, under the panel headed by ADM, Patna and BSPCB.

EC Proposal was considered in SEAC meeting on 30<sup>th</sup> Oct.'2021, During SEAC meeting it was observed that the project proponent has started some activities work at project site without E.C. Accordingly, proposal was rejected by SEIAA/SEAC.

M/s Tejas Iron & Steel Private Limited has again acquired land under lease agreement adjoining previous project site at Mauza: Khirodharpur, Near Industrial Area, Fatuha, District: Patna, State: Bihar. As per requirement of EIA Notification 2006, fresh proposal has been submitted for obtaining TOR. During SEAC meeting, Project proponent has requested to consider the proposal for grant of Environmental Clearance as the present project site is adjacent to the previous site for which EIA study was conducted and Public Hearing was done.

In light of MoECCC Circular vide No. J-11013/41/2006-IA.II(I) Dt: 22<sup>nd</sup> Jan.'2010, the committee observed that site shift is minor, as the proposed site is

adjoining the site proposed earlier for which public hearing was held and EIA/EMP studies were conducted, there is no project affected people because the land belongs to the same company, as well as, the study area and impact zone is also same. The Project Proponent also requested the Committee to allow them to use previous baseline data and exemption from Public Hearing for aforesaid project, hence the Committee accepted his request.

The Committee after deliberations and with due diligence, as per MoEFCC O.M No. J-11013/41/2006-IA-II (I) Part, Dt: 29<sup>th</sup> Aug.'2017, recommend, Project Proponent for submission of EIA / EMP Report and Public Hearing which is not older than 3 years and also the Committee decided to recommend the proposed proposal for grant of Terms of Reference subject to the standard conditions as **annexure 'A'**.

### **Consideration/Reconsideration of Environmental Clearance Proposal**

#### **AGENDA ITEM NO. 6**

**Smrity Paper Mill Private Limited (Modernization cum expansion of its existing Paper Mill by addition of bleaching process, for producing Writing Paper, from 50 TPD to 80 TPD capacity at Mauza:-Chitma, Mahuli Road, P.O.:- Kothian, Patna City, District:- Patna, State:- Bihar; – Reg. Environmental Clearance (File No.: SIA/5(i)/1028/2020, Proposal No.: SIA/BR/IND/53470/2020).**

**Environment Consultant: - PARAMARSH(Servicing Environment and Development)**

Application along with filled up Form - I, Pre-Feasibility Report and Environment Management Plan in the prescribed format was submitted to SEIAA, Bihar on 03<sup>rd</sup> June 2020 for obtaining Terms of reference (ToR). ToR has been issued by SEIAA, Bihar vide F. No. SIA/5(i)/1028/2020, dated 24.11.2020 and Public Consultation was done by Bihar State Pollution Control Board on 20.10.2021. Final EIA report was submitted to SEIAA, Bihar on 17<sup>th</sup> January, 2022 for obtaining Environmental Clearance (EC).

The Project Proponent along with its environmental consultant PARAMARSH(Servicing Environment and Development), made a presentation on the key parameters and salient features of the project. Based on discussion, the Committee found their presentation and proposal satisfactory and acceptable, hence the Committee decided to recommend the proposed proposal for grant of Environmental Clearance



subject to the following special conditions in addition to the standard conditions as annexure 'B'.

- I. OCEMS should be linked to server of Bihar State Pollution Control Board, Patna. In-let and out-let from meter (flow meter) and separate electricity connection for operation of ETP should be followed.
- II. Zero liquid discharge technology shall be adopted. In no circumstances any effluent shall be discharged in any surrounding area including into a drainage passing near the project site.
- III. Develop the 33% green belt area of the total project plot area.

#### **AGENDA ITEM NO. 7**

**Proposed "Patwari Steels Private Limited" ( Phase I expansion, 1 no .new induction furnace of 10 TPH Capacity and during phase II 1 no. new induction furnace of 10TPH capacity will installed In two different phases Modernization & Expansion of Ro-rolling Mill) will be carried out its capacity will increase from 30,000 TPA to 90,000 TPA ) at Fatuha Industrial Area, Tehsil:- Fatuha, District:- Patna, State:- Bihar.Reg. Environmental Clearance**

**(File No.: SIA/3(a)/1235/2020, Proposal No.: SIA/BR/IND/55772/2020).**

**Environment Consultant: - PARAMARSH(Servicing Environment and Development)**

Application along with filled up Form - I, Pre-Feasibility Report and Environment Management Plan in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> September, 2020 for obtaining Terms of reference (ToR). ToR has been issued by SEIAA, Bihar vide F. No. SIA/3(a)/1235/2020, dated 07.12.2020. Final EIA report was submitted to SEIAA, Bihar on 17<sup>th</sup> January, 2022 for obtaining Environmental Clearance (EC).

The Project Proponent along with its environmental consultant PARAMARSH(Servicing Environment and Development), made a presentation on the key parameters and salient features of the project. Based on discussion, the Committee found their presentation and proposal satisfactory and acceptable, hence the Committee decided to recommend the proposed proposal for grant of Environmental Clearance subject to the following special conditions in addition to the standard conditions as annexure 'C'.

- I. Regular water sprinkling shall be done on peripheral roads used for transportation of raw material and finished products within 1 KM from the proposed plant boundary to minimize air pollution during operation phase.
- II. Plantation along the road and footpath as suggested in the meeting by increasing green belt. Develop the 33% green belt area of the total project plot area.

**AGENDA ITEM NO. 8**

**Proposed 100 KLD Grain Based Distillery (Ethanol) With 2.5 Mw Power Cogeneration Project at Village:-Tarachandpur, Tehsil:- Bakhtiarpur, District:- Patna, State:- Bihar; by M/ Newgen Bio-fuel Private Limited (NBPL) [Total Production Capacity 100 KLPD and Power Cogeneration Project- 2.5 MW] – Reg. Environmental Clearance (File No.: SIA/5(g)1653/2021, Proposal No.: SIA/BR/IND2/227034/2021).**

**Environment Consultant: - PARAMARSH (Servicing Environment and Development)**

Earlier in the meeting dated 30<sup>th</sup> October 2021, the Committee had directed the Project Proponent to approach the MoEF&CC, GoI regarding Environmental Clearance under category 5(g). The Project Proponent stated that approach the MoEF&CC, GoI. The EAC Committee of MoEF&CC, GoI minutes of the 47<sup>th</sup> meeting dated 23<sup>rd</sup> December 2021 return the proposal in present form to SEAC for appraisal.

The Project Proponent along with its environmental consultant PARAMARSH (Servicing Environment and Development), made a presentation on the key parameters and salient features of the project. Based on discussion, the Committee found their presentation and proposal satisfactory and acceptable, hence the Committee decided to recommend the proposed proposal for grant of Environmental Clearance subject to the following special conditions in addition to the standard conditions as annexure 'D'.

1. Regular water sprinkling shall be done on peripheral roads used for transportation of raw material and finished products within 1 KM from the proposed plant boundary to minimize air pollution during operation phase.

**AGENDA ITEM NO. 9**

**Proposed Metallurgical industries (ferrous & non ferrous) at Village:- Abdul Rahamapur, Mauza- Abdul Rahamapur, Tehsil-Patna City, District- Patna, State- Bihar; by M/s Dina Iron and Steel Limited (Expansion Project with proposed production capacity of 34560 TPA of MS Ingots and 105800 TPA of TMT BARS)Reg. Environmental Clearance**

**(File No.: SIA/3(a)/1233/2020, Proposal No.: SIA/BR/IND/53693/2020).**

**Environment Consultant: -Rian Enviro Private Limited.**

Application along with filled up Form - I, Pre-Feasibility Report and Environment Management Plan in the prescribed format was submitted to SEIAA, Bihar on 05<sup>th</sup> August, 2020 for obtaining Terms of reference (ToR). ToR has been issued by SEIAA, Bihar vide F. No. SIA/3(a)/1233/2020, dated 17.09.2020 and Public Consultation has been done by Bihar State Pollution Control Board on 15.12.2021. Final EIA report was submitted to SEIAA, Bihar on 17<sup>th</sup> January, 2022 for obtaining Environmental Clearance (EC).

The Project Proponent along with its environmental consultant Rian Enviro Private Limited, made a presentation on the key parameters and salient features of the project. Based on discussion, the Committee found their presentation and proposal satisfactory and acceptable, hence the Committee decided to recommend the proposed proposal for grant of Environmental Clearance subject to the following special conditions in addition to the standard conditions as **annexure 'E'**.

- I. Regular water sprinkling shall be done on peripheral roads used for transportation of raw material and finished products within 1 KM from the proposed plant boundary to minimize air pollution during operation phase.

**AGENDA ITEM NO. 10**

**Proposed Setting up a Pharmaceutical Formulation Unit for manufacturing of Vitamins,Tablet, Capsules, Dry Syrups, Liquids, Ointments and Dry Powders at Village:-Sarotar,Tehsil:-Kesaria, District:- East Champaran, State:- Bihar; by M/S Bravo Pharmaceuticals PrivateLimited (Expansion Project)[Total Area:- 21,580 m<sup>2</sup>]- Reg. Environmental Clearance**

**(File No.: SIA/5(f)/1852/2021, Proposal No.: SIA/BR/IND3/249128/2021).**

**Environment Consultant: - Rian Enviro Private Limited**



Application along with filled up Form - I, Pre-Feasibility Report and Environment Management Plan in the prescribed format was submitted to SEIAA, Bihar on 31<sup>st</sup> December, 2021 for obtaining Environmental Clearance (EC).

The Project Proponent along with its environmental consultant Rian Enviro Private Limited, made a presentation on the key parameters and salient features of the project. Based on discussion proposal appraised as per MoEF&CC,GoI Notification S.O.2859 (E) dated 16.07.2021 , the Committee found their presentation and proposal satisfactory and acceptable, hence the Committee decided to recommend the proposed proposal for grant of Environmental Clearance subject to the following special conditions in addition to the standard conditions as **annexure 'F'**.

- I. Conduct safety audit half yearly basis.
- II. Examine ground water quality (through NABL accredited labs) within 5 KM radius of the proposed project yearly basis and submit to SEIAA, Bihar, B.S.P.C.B, Ptana, Regional office Ranchi of MoEF&CC,GoI.
- III. As recommended by the Committee, for Corporate Environment Responsibility (CER) the nearest chakiya municipal body should be contacted for preparing a plan for utilization of CER fund for the solid waste management related activities. A written commitment has to be made to the concerned municipal authority with copy marked to the Principal Secretary, Urban Development and Housing Department, Govt. of Bihar, Patna.

**AGENDA ITEM NO. 11**

**Proposed Building Project at Mauza:-Khormpur, Tehsil:-Chausa, District:-Buxar, State:- Bihar; by M/S Mini Smart Township of BTPP Buxar [Total Plot Area:- 2,00,400 m<sup>2</sup>, Total Built-up Area:- 69,895.90 m<sup>2</sup>]- Reg. Environmental Clearance (File No.: SIA/8(a)/1854/2021, Proposal No.: SIA/BR/MIS/251608/2022).**

**Environment Consultant:** - Rian Enviro Private Limited (Certificate No. NABET/EIA/2124/IA0079).

Application along with filled up Form - I, Form - I(A) and Conceptual Plan in the prescribed format was submitted to SEIAA, Bihar on 31<sup>st</sup> December, 2021 for obtaining Environmental Clearance (EC).

The Project Proponent along with its environmental consultant M/s. Rian Enviro Private Limited made a presentation on the key parameters and salient features of the project.

Based on discussion, the Committee sought the following revised information from the Project Proponent /Consultant: -

- I. Submit a copy of the contour plan with slopes, drainage pattern of the site, and the surrounding area together with obstruction of the same by project, if any.
- II. The Project Proponent needs to submit the layout drawing which was submitted to MoEF&CC regarding Environmental Clearance of BTPP showing power plant and areas earmarked for other essential facilities including the residential buildings and green belt.
- III. The Project Proponent to submit the document which was submitted to WRD, Government of Bihar for the diversion of Budha nala.

**AGENDA ITEM NO. 12**

**Proposed Commercial and Residential Building Project of "Umeed Nagar Township" at Mohalla:-Ranipur Chakmilki, Tehsil:-Patna Rural, District:-Patna, State:- Bihar; by M/s Umeed Builder & Constructor Private Limited [Total Plot Area:- 9,891.07 m<sup>2</sup>, Total Built-up Area:- 35,873.54 m<sup>2</sup> (Residential Build-up Area:- 26,065.63 m<sup>2</sup>, Commercial Build-up Area:- 11,807.91 m<sup>2</sup>]- Reg. Environmental Clearance**

**(File No.: SIA/8(a)/1853/2022, Proposal No.: SIA/BR/MIS/251819/2022).**

**Environment Consultant: - Rian Enviro Private Limited (Certificate No. NABET/EIA/2124/IA0079).**

Application along with filled up Form - I, Form - I(A) and Conceptual Plan in the prescribed format was submitted to SEIAA, Bihar on 31<sup>st</sup> December, 2021 for obtaining Environmental Clearance (EC).

The Project Proponent along with its environmental consultant M/s. Rian Enviro Private Limited made a presentation on the key parameters and salient features of the project.

Based on discussion, the Committee sought the following revised information from the Project Proponent /Consultant: -

- I. Remove at least one block from the Layout plan.



LIST OF PARTICIPANTS IN 6<sup>th</sup> MEETING OF SEAC, BIHAR HELD ON  
29<sup>th</sup> JANUARY 2022

S. No.	Name	Designation	Attendance on 29.01.2022
1	Dr. Gopal Sharma	Chairman	Present
2	Dr. Ramakar Jha	Member	Present
3	Dr. Bibha Kumari	Member	Present
4	Dr. Anshumali	Member	Present through video link.
5	Dr. Aditya Mohanty	Member	Present through video link.
6	Shri Mokhtarul Haque	Member	Present
7	Shri Ranjan Kumar	Member	Present through video link.
8	Shri Ajit Samaiyar	Member	Present
9	Shri S. Chandrasekar	Member Secretary	Present

Signature(s) of Members Present

Sd/-  
(Dr. Aditya Mohanty)  
(Member, SEAC)

Sd/-  
(Dr. Bibha Kumari)  
(Member, SEAC)

Sd/-  
(Mokhtarul Haque)  
(Member, SEAC)


Sd/-  
(Ajit Samaiyar)  
(Member, SEAC)

Sd/-  
(Dr. Anshumali)  
(Member, SEAC)

Sd/-  
(Ranjan Kumar)  
(Member, SEAC)

Sd/-  
(Dr. Ramakar Jha)  
(Member, SEAC)

  
(S. Chandrasekar, IFS)  
(Member Secretary, SEAC)

  
(Dr. Gopal Sharma)  
(Chairman, SEAC)

Copy to:-  
The Member Secretary, SEIAA, Bihar  
For information and necessary action.



## Annexure -A (Tejas Iron - ToR)

1. **Executive Summary.**
2. **Introduction.**
  - i. Details of the EIA Consultant including NABET accreditation.
  - ii. Information about the project proponent.
  - iii. Importance and benefits of the project.
3. **Project Description.**
  - i. Cost of project and time of completion.
  - ii. Products with capacities for the proposed project.
  - iii. Details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
  - iv. List of raw materials required and their source along with mode of transportation.
  - v. Other chemicals and materials required with quantities and storage capacities.
  - vi. Details of Emission, effluents, solid waste, hazardous waste generation and their management.
  - vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contractual).
  - viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided.
  - ix. Production of a report / certificate from concerned authority enforcing Factory Act regarding suitability of existing unit / plant for proposed expansion mentioning whether existing plant is a satisfactory compliant of Factory Act.
  - x. The proposal of the expansion of capacity to include thorough renovation/up-gradation of all existing infrastructure of the unit consisting development/construction of First aid center/dispensary room for workers, development of facilities (toilets/urinals/washing rooms, canteen etc.)
  - xi. Hazard identification and details of proposed safety systems.
  - xii. Submit a copy of application submitted to competent authority / agency with regard to supply of PNG gas pipe line.

xiii. Expansion/modernization proposals:

- a) Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MoEF&CC/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing Environmental Clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing existing operation of the project from SPCB shall be attached with the EIA-EMP report.
- b) In case the existing project has not obtained Environmental Clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification, 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

**4. Site Details.**

- i. Location of the project site with description of surround covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether alternative sites were considered.
- ii. A toposheet of the study area of radius of 10 km and site location on 1:50,000/1:25,000 scale on an A<sub>3</sub>/A<sub>2</sub> sheet. (including all eco-sensitive areas and environmentally sensitive places).
- iii. Details w.r.t. option analysis for selection of site.
- iv. Co-ordinates (lat-long) of all four corners of the site.
- v. Google map-Earth downloaded of the project site.
- vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an

Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.

- vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- viii. Landuse break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area).
- ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area.
- x. Geological features and Geo-hydrological status of the study area shall be included.
- xi. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects).
- xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- xiii. R&R details in respect of land in line with state Government policy.

#### **5. Environmental Status**

- i. Determination of atmospheric inversion level at the project site and site-specific micrometeorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. Surface water quality of nearby River (100meter upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
- iii. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
- iv. Ground water monitoring at minimum at 8 locations shall be included.
- v. Noise levels monitoring at 8 locations within the study area.
- vi. Soil Characteristic as per CPCB guidelines.



- vii. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- viii. A detailed report shall be submitted using suitable model used to predict increase in air pollutants due to increased traffic load due to proposed project.
- ix. Detailed description of flora and fauna (terrestrial, avifauna and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- x. Socio-economic status of the study area.

#### **6. Impact and Environment Management Plan.**

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling - in case of discharge in water body.
- iii. Ground water classification as per the Central Ground Water Authority and NOC from CGWB.
- iv. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum-rail transport shall be examined.
- v. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete

- scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
- vi. Details of stack emission and action plan for control of emissions to meet standards.
  - vii. Measures for fugitive emission control.
  - viii. Details of hazardous waste generation and their storage, utilization and management. Copies of MoU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.
  - ix. Proper utilization of fly ash, shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
  - x. Arrangement of land/alternative sites for green-belt development inside unit or in the proximity of unit.
  - xi. Submit an action plan for the three tier plantation to develop a green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
  - xii. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
  - xiii. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
  - xiv. Action plan for post-project environmental monitoring shall be submitted.
  - xv. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

## 7. Occupational health

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.
- ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.
- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,
- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.
- v. Making provisions for all personal safety/security related gears (shoes /hats/ helmets/ jacket/ gloves, specks, ear plugs etc.) for all workers and enforcing use of the same.

#### **8. Corporate Environment Policy**

- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- ii. The Project Proponent shall prepare report with the provisions contained in Ministry of Environment, Forest & Climate Change OM Vide F. No. 22-65/2017-IA.III dated 1<sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibilities.
- iii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
- iv. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.



- v. Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report.
9. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.
10. **Enterprise Social Commitment (ESC)**
- i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Consultation issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.
11. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.

**SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR METALLURGICAL INDUSTRIES (FERROUS &NON FERROUS)**

1. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs & outputs (material and energy balance).
2. Details on blast furnace/ open hearth furnace/ basic oxygen furnace/ladle refining, casting and rolling plants etc.
3. Details on installation/activation of capacity meters with recording with proper calibration system.
4. Details on toxic metals including mercury, arsenic and fluoride emissions.
5. Details on stack height requirement for integrated steel.
6. Details on ash disposal and management -Non-ferrous metal.

7. Complete process flow diagram describing production of lead/zinc/copper/aluminium, etc.
8. Raw materials substitution or elimination.
9. Details on smelting, thermal refining, melting, slag fuming, and Waelz kiln operation.
10. Details on Holding and de-gassing of molten metal from primary and secondary aluminum, materials pre-treatment, and from melting and smelting of secondary aluminium.
11. Details on solvent recycling.
12. Details on precious metals recovery.
13. Details on composition, generation and utilization of waste/fuel gases from coke oven plant and their utilization.
14. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
15. Trace metals Mercury, arsenic and fluoride emissions in the raw material.
16. Trace metals in waste material especially slag.
17. Plan for trace metal recovery.
18. Trace metals in water.
19. A tabular chart with index for point wise compliance of above ToR.

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**Annexure-B( Smrity Papers Mill )**

**I. Statutory compliance:-**

- i. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/Committee.
- ii. The Project Proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the Project.
- iii. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

**II. Air quality monitoring and preservation:-**

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No.-546 (E) dated 30<sup>th</sup> August 2008 as amended from time to time and S.O. 3305 (E) dated 7<sup>th</sup> December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and the systems be calibrated according to equipment supplier's specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.
- iii. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality / fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.



- iv. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- v. The project proponent shall install high volume, low concentration NCG collection & destruction system to mitigate all malodorous gases emitted.
- vi. Emissions shall be controlled from chemical recovery section through primary and secondary venture scrubbers.
- vii. Pollution control system in the pulp and paper plant shall be provided as per the CREP Guidelines of CPCB.
- viii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- ix. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
- x. In case of treatment process disturbances/failure of Pollution Control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- xi. Elemental chlorine free (ECF) technology shall be used and lime kiln shall be installed to manage lime sludge.

### **III. Water quality monitoring and preservation:-**

- i. The unit shall maintained ZLD by proper treatment and utilization of treated effluent in the plant. The unit shall install surveillance system like IP (Camera), flow meter inlet and outlet point.
- ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection Act, 1986 and NABL accredited laboratories.
- iii. The project proponent shall submit monthly summary report of results of manual effluent testing and manual monitoring of ground water quality to Regional office of MoEF&CC, Zonal office of CPCB and Regional office of SPCB along with six-monthly monitoring report.

- iv. The project proponent shall provide the ETP to meet the standards prescribed in vide G.S.R. No. 546 (E) dated 30<sup>th</sup> August 2008 as amended from time to time and S.O. 3305 (E) dated 7<sup>th</sup> December 2015 (Thermal Power Plants) as amended from time to time.
- v. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in event of heavy rains and to check the water pollution due to surface run off.
- vi. Try washing facilities shall be provided at the entrance of the plant gate (s).
- vii. Ensure that there is no black liquor spillage in area of pulp mill, no use of elemental chlorine for bleaching in mill, installation of hypo preparation plant.
- viii. Ensure that no spillage of foam in chemical recovery plant, no discharge of foul condensate generated from MEE in the Chemical recovery process directly to ETP.
- ix. The project proponent shall practice rainwater harvesting to maximum possible extent.
- x. Water meters shall be provided at the inlet to all unit processes in the steel plants.
- xi. The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

#### **IV. Noise monitoring and prevention:-**

- i. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P) A Rules, 1986 viz. 75 dB (A) during day time and 70 dB (A) during night time.

#### **V. Energy Conservation measures :-**

- i. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street light, parking around project area and maintain the same regularly;

- ii. Provide LED lights in their offices and residential areas.

**VI. Water management :-**

- i. Deinking sludge and fine sludge from ETP shall be disposed through TSDF.
- ii. Black Liquor shall be separately processed for recovery of energy and chemical in a Chemical Recovery Process.
- iii. Sufficient number of colour coded waste collection bins shall be constructed at shop floors in each shop to systematically segregate and store waste materials generated at the shop floors (other than process waste) in designated coloured bins for value addition by promoting reuse of such wastes and for good housekeeping.
- iv. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and memorandum of understanding in this regard shall be submitted to the Ministry's Regional Office. (in case of CPP)
- v. The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & other waste (Management & Transboundary Movement) Rules, 2016.
- vi. Kitchen waste shall be composted or converted to biogas for further use. (to be decided on case to case depending on type and size of plant)

**VII. Green Belt :-**

- i. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.
- ii. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.

**VIII. Public hearing and Human health/safety issues :-**

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.



- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- v. The proponent shall follow international standards of safety for ClO<sub>2</sub> generation and storage system, and ozone plant, and certification on regular basis may be submitted. Provision for adequate safety for personnel in case of any accidental leakage should be in place.

**IX. Corporate Environment Responsibility :-**

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No.- 22-65/2017-IA.III dated 1<sup>st</sup> May 2018, as applicable, regarding corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The Environmental policy should prescribe for standard operating procedures to have proper checks and balances and to focus any infringements/deviation/violation of the environmental / forest / wildlife norms /conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter lever, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for

environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/ Regional Office along with the Six Monthly Compliance Report.

- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
- vi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Paper Plants shall be implemented.

**X. Miscellaneous :-**

- i. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financially year in Form-V to the concerned State Pollution Control Board as

- prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
  - viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
  - ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
  - x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
  - xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
  - xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
  - xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.
  - xiv. The Regional office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
  - xv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme



Court of India/ High Courts and any other Court of Law relating to the subject matter.

- xvi. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

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## Annexure –C( Patwari Steels )

### I. Statutory compliance:

1. The Project Proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the water (prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
2. The Project Proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water/from the competent authority concerned in case of drawl of surface water required for the project.
3. The Project Proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

### II. Air quality monitoring and preservation

1. The Project Proponent shall install 24x7 continuous emission monitoring system ensuring 98% data upload at process stacks to monitor stack emission with respect to standards prescribed in Environment(Protection) Rules 1986 vide G.S.R. 277 (E) dated 31st March 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2. The Project Proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (protection) Act, 1986 or NABL accredited laboratories.
3. The Project Proponent shall install system carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM<sub>10</sub> and PM<sub>2.5</sub> in reference to PM emission, and SO<sub>2</sub> and NO<sub>x</sub> in reference to SO<sub>2</sub> and NO<sub>x</sub> emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each).

covering upwind and downwind directions. (case to case basis small plants: Manual; large plants: Continuous)

4. The Project Proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/fugitive emissions to Regional Office of MoEF&CC/SEIAA, Zonal Office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
5. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.
6. The Project Proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
7. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
8. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines Collected in the pollution control devices and vacuum cleaning devices in the process after briquetting / agglomeration.
9. The Project Proponent shall use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
10. The Project Proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.
11. The Project Proponent shall provide primary and secondary fume extraction system at all melting furnaces.
12. Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.
13. Fixing water sprinklers in plant campus, and use water tanker for sprinkling water on approach road of the unit at least twice daily or as per requirement to minimize air pollution due to dust
14. Mist spraying system for dust suppression in the campus.



### III. Water quality monitoring and preservation

1. The Project Proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
2. The Project Proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC/SEIAA, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
3. Adhere to 'Zero Liquid Discharge'.
4. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
5. The Project Proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R. 277 (E) 31<sup>st</sup> March 2012 (applicable to IF/EAF) as amended from time to time.
6. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
7. The Project Proponent shall practice rainwater harvesting to maximum possible extent.
8. The Project Proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

### IV. Noise monitoring and prevention

1. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Office of the Ministry as a part of six-monthly compliance report.



2. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB (A) during day time and 70 dB(A) during night time.

#### **V. Energy Conservation measures**

1. The Project Proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.
2. Practice hot charging of slabs and billets/blooms as far as possible.
3. Ensure installation of regenerative type burners on all reheating furnaces.
4. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
5. Provide the Project Proponent for LED lights in their offices and residential areas.

#### **VI. Waste management**

1. Used refractories shall be recycled as far as possible.
2. Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed dried, and briquetted and reused melting Furnaces.
3. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office and SEIAA, Bihar.
4. The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Trans boundary Movement) Rules, 2016.
5. Kitchen waste shall be composted or converted to biogas for further use. *(to be decided on case to case basis depending on type and size of plant)*

#### **VII. Green Belt**



1. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The green belt shall inter alia cover the entire periphery of the plant.
2. The Project Proponent shall prepare GHG emissions inventory for the plant and shall submit the action plan for reduction of the same including carbon sequestration including plantation.

#### **VIII. Public hearing and Human health issues**

1. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
2. The Project Proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
3. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
4. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

#### **IX. Corporate Environment Responsibility**

1. The Project Proponent shall comply with the provisions contained in this Ministry's OM vide F.NO. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/ deviation/ violation of the environmental/forest/ wildlife norms/ conditions and / or shareholders/ stake holders. The copy of the board resolution



in this regard shall be submitted to the SEIAA, Bihar as a part of six-monthly report.

3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the SEIAA, Bihar / Regional Office of MoEF&CC along with the Six Monthly Compliance Report.
5. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
6. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.

#### **X. Miscellaneous**

1. The Project Proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the Project Proponent's website permanently.
2. Entry inside the plant premises to all the workers/supervisor/Manager shall only be given after having all personal protective gears.
3. The Project Proponent shall maintain regularly the material balance and shall report and shown as and when asked for.
4. The copies of the Environmental Clearance shall be submitted by the Project Proponents to the heads of local bodies, Panchayats and Municipal Bodies in

addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

5. The Project Proponent shall upload the status of compliance of the stipulated Environment Clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
6. The Project Proponent shall monitor the criteria pollutants level namely; PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
7. The Project Proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
8. The Project Proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board/SEIAA as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
9. The Project Proponent shall inform the Regional Office as well as the SEIAA/Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
11. The Project authorities must strictly adhere to the stipulations made by the State Pollution control Board and the State Government.
12. The Project Proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during public Hearing and also that during their presentation to the State Expert Appraisal Committee.
13. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, Bihar.



14. Concealing factual data or submission of false/fabricated data may result in revocation of this Environmental Clearance and attract action under the provisions of Environment (Protection) Act, 1986.
15. The SEIAA, Bihar may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
16. The SEIAA, Bihar reserves the right to stipulate additional conditions If found necessary. The Company in a time bound manner shall implement these conditions.
17. The Regional Office of this MoEF&CC/SEIAA shall monitor compliance of the stipulated conditions. The Project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information/ monitoring reports.
18. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016 and the public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Low relating to the subject matter.
19. The Environmental Clearance shall remain valid for seven years from the date of its issuance.
20. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010





## Annexure -D (Distillery)

### **I. Statutory compliance:-**

- i. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/Committee.
- ii. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- iii. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

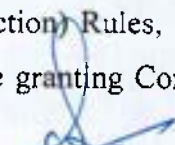
### **II. Air quality monitoring and preservation:-**

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No.-546 (E) dated 30<sup>th</sup> August 2008 as amended from time to time and S.O. 3305 (E) dated 7<sup>th</sup> December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and the systems be calibrated according to equipment supplier's specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM<sub>10</sub> and PM<sub>2.5</sub> in reference to PM emission, and SO<sub>2</sub> and NO<sub>x</sub> in reference to SO<sub>2</sub> and NO<sub>x</sub>emission) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous)
- iii. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality / fugitive emissions to

Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.

- iv. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- v. The National should Air Quality Emission Standards issued by the Ministry vide G.S.R. No.-826(E) dated 16<sup>th</sup> November, 2009 shall be complied with.
- vi. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- vii. The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.
- viii. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution other fugitive emissions.

### **III. Water quality monitoring and preservation:-**

- i. For online continuous of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD) and connected to SPCB and CPCB online servers.
  - ii. Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD)
  - iii. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
  - iv. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/water Act, whichever is more stringent.
- 

- v. Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from concerned regulatory authority/CGWA in this regard.
- vi. Industrial/trade effluent shall be segregated into High COD/TDS and Low COD/TDS effluent streams. High TDS/CDS shall be passed through stripper followed by MEE and ATFD (agitated thin film drier.) Low TDS effluent stream shall be treated in ETP and then passed through RO system.
- vii. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.

**IV. Noise monitoring and prevention:-**

- i. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- ii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
- iii. The ambient noise levels should conform to the standards prescribed under E(P) A Rules, 1986 viz. 75 dB (A) during day time and 70 dB (A) during night time.

**V. Energy Conservation measures :-**

- i. The energy sources for lighting purposes shall preferably be LED based.

**VI. Water management :-**

- i. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- ii. Process organic residue and spent carbon, if any shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- iii. The company shall undertake waste minimization measures as below:-
  - a. Metering and control of quantities of active ingredients to minimize waste.



- b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
- c. Use of automate filling to minimize spillage.
- d. Use of Close feed system into batch reactors.
- e. Venting equipment through vapour recovery system.
- f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.

**VII. Green Belt :-**

- i. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.

**VIII. Safety, Public hearing and Human health/safety issues :-**

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vi. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.

**IX. Corporate Environment Responsibility :-**

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No.- 22-65/2017-IA.III dated 1<sup>st</sup> May 2018, as applicable, regarding corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The Environmental policy should prescribe for standard operating procedures to have proper checks and balances and to focus any infringements/deviation/violation of the environmental / forest / wildlife norms /conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter lever, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/ Regional Office along with the Six Monthly Compliance Report.
- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

**X. Miscellaneous :-**

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.

- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financially year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).



- xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.
- xiv. The Regional office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
- xv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.
- xvi. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.



## Annexure – E (Dina Iron )

### I. Statutory compliance:

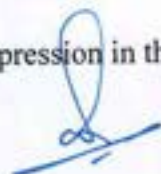
1. The Project Proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the water (prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
2. The Project Proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water/from the competent authority concerned in case of drawl of surface water required for the project.
3. The Project Proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

### II. Air quality monitoring and preservation

1. The Project Proponent shall install 24x7 emission monitoring system ensuring 98% data upload at process stacks to monitor stack emission with respect to standards prescribed in Environment(Protection) Rules 1986 vide G.S.R. 277 (E) dated 31st March 2012 (applicable to IF/EAF) as amended form time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plantsas amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2. The Project Proponent shall monitor fugitive emissions in the plant premises at leastonce in every quarter through laboratories recognized under Environment (protection) Act, 1986 or NABL accredited laboratories.
3. The Project Proponent shall install system carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM<sub>10</sub> and PM<sub>2.5</sub> in reference to PM emission, and SO<sub>2</sub> and NOx in reference to SO<sub>2</sub> and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of

120° each), covering upwind and downwind directions. (case to case basis small plants: Manual; large plants: Continuous)

4. The Project Proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/fugitive emissions to Regional Office of MoEF&CC/SEIAA, Zonal Office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
5. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.
6. The Project Proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
7. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
8. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines Collected in the pollution control devices and vacuum cleaning devices in the process after briquetting / agglomeration.
9. The Project Proponent shall use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
10. The Project Proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.
11. The Project Proponent shall provide primary and secondary fume extraction system at all melting furnaces.
12. Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.
13. Fixing water sprinklers in plant campus, and use water tanker for sprinkling water on approach road of the unit at least twice daily or as per requirement to minimize air pollution due to dust
14. Mist spraying system for dust **suppression in the campus.**





### III. Water quality monitoring and preservation

1. The Project Proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
2. The Project Proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC/SEIAA, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
3. Adhere to 'Zero Liquid Discharge'.
4. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
5. The Project Proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R. 277 (E) 31<sup>st</sup> March 2012 (applicable to IF/EAF) as amended from time to time.
6. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
7. The Project Proponent shall practice rainwater harvesting to maximum possible extent.
8. The Project Proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

### IV. Noise monitoring and prevention

1. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Office of the Ministry as a part of six-monthly compliance report.

2. The ambient noise levels should conform to the standards prescribed under ECPA Rules, 1986 viz. 75 dB (A) during day time and 70 dB(A) during night time.

#### **V. Energy Conservation measures**

1. The Project Proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.
2. Practice hot charging of slabs and billets/blooms as far as possible.
3. Ensure installation of regenerative type burners on all reheating furnaces.
4. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
5. Provide the Project Proponent for LED lights in their offices and residential areas.

#### **VI. Waste management**

1. Used refractories shall be recycled as far as possible.
2. Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed dried, and briquetted and reused melting Furnaces.
3. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office and SEIAA, Bihar.
4. The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Trans boundary Movement) Rules, 2016.
5. Kitchen waste shall be composted or converted to biogas for further use. *(to be decided on case to case basis depending on type and size of plant)*

#### **VII. Green Belt**



1. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The green belt shall inter alia cover the entire periphery of the plant.
2. The Project Proponent shall prepare GHG emissions inventory for the plant and shall submit the action plan for reduction of the same including carbon sequestration including plantation.

#### **VIII. Public hearing and Human health issues**

1. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
2. The Project Proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
3. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
4. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

#### **IX. Corporate Environment Responsibility**

1. The Project Proponent shall comply with the provisions contained in this Ministry's OM vide F.NO. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/ violation of the environmental forest/ wildlife norms/ conditions and /



or shareholders/ stake holders. The copy of the board resolution in this regard shall be submitted to the SEIAA, Bihar as a part of six-monthly report.

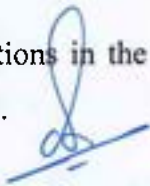
3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the SEIAA, Bihar / Regional Office of MoEF&CC along with the Six Monthly Compliance Report.
5. Self-environmental audit shall be conducted annually. Every three years third par environmental audit shall be carried out.
6. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.

#### **X. Miscellaneous**

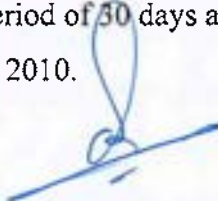
1. The Project Proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the Project Proponent's website permanently.
2. Entry inside the plant premises to all the workers/supervisor/Manager shall only be given after having all personal protective gears.
3. The Project Proponent shall maintain regularly the material balance and shall report and shown as and when asked for.
4. The copies of the Environmental Clearance shall be submitted by the Project Proponents to the heads of local bodies, Panchayats and Municipal Bodies in

addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

5. The Project Proponent shall upload the status of compliance of the stipulated Environment Clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
6. The Project Proponent shall monitor the criteria pollutants level namely; PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
7. The Project Proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
8. The Project Proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board/SEIAA as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
9. The Project Proponent shall inform the Regional Office as well as the SEIAA/Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
11. The Project authorities must strictly adhere to the stipulations made by the State Pollution control Board and the State Government.
12. The Project Proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during public Hearing and also that during their presentation to the State Expert Appraisal Committee.
13. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, Bihar.



14. Concealing factual data or submission of false/fabricated data may result in revocation of this Environmental Clearance and attract action under the provisions of Environment (Protection) Act, 1986.
15. The SEIAA, Bihar may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
16. The SEIAA, Bihar reserves the right to stipulate additional conditions If found necessary. The Company in a time bound manner shall implement these conditions.
17. The Regional Office of this MoEF&CC/SEIAA shall monitor compliance of the stipulated conditions. The Project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information/ monitoring reports.
18. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016 and the public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Low relating to the subject matter.
19. The Environmental Clearance shall remain valid for seven years from the date of its issuance.
20. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.



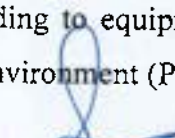


## Annexure-F (Pharmaceuticals )

### **I. Statutory Compliance**

- i. The Project Proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project, if applicable.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The Project Proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule- species in the study area) if applicable.
- iv. The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- v. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- vi. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time, All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act, (MVA) 1989.

### **II. Air quality monitoring and preservation**

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Reuls 1986 and connected to SPCB and CPCB online servers and calibrate these system from time to according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
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- ii. The Project Proponent shall monitor fugitive emission in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutions released (e.g. PM<sub>10</sub> and PM<sub>2.5</sub> in reference to PM emission, and SO<sub>2</sub> and NO<sub>x</sub> in reference to SO<sub>2</sub> and NO<sub>x</sub> emissions) within and outside the plant area at least at locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
- iv. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/ or the NAAQS, Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- v. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- vi. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21<sup>st</sup> July, 2010 and amended from time to time shall followed.
- vii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 shall be complied with.

### III. Water quality monitoring and Preservation.

- i. The Project Proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the project achieving ZLD).
- ii. As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the project achieving the ZLD).
- iii. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State

Pollution Control Board while granting Consent under the Ari/Water Act, whichever is more stringent.

- iv. Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.
- v. Process effluent/any waste water shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
- vi. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
- vii. The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and guidelines in this regard.


#### **IV. Noise monitoring and prevention**

- i. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- ii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
- iii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

#### **V. Energy conservation measures**

- i. The energy sources for lighting purposes shall preferable be LED based.

#### **VI. waste management**

- i. Hazardous chemicals shall be stored in tanks, farms, drums, carboys etc, Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- ii. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- iii. The company shall undertake waste minimization measures as below:-  




- a. Metering and control of quantities of active ingredients to minimize waste.
- b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
- c. Use of automated filling to minimize spillage.
- d. Use of Close Feed system into batch reactors.
- e. Venting equipment through vapour recovery system.
- f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.

**VII. Green Belt**

- i. The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.

**VIII. Safety, Public hearing and Human health issues**

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- iii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iv. Training shall imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- v. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

- vii. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside of public places.

#### **IX. Corporate Environment Responsibility**

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017.III dated-1<sup>st</sup> May 2018, as applicable, regarding corporate Environment Responsibility.
- ii. The Company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / Wildlife norms/ conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/ conditions and / or shareholders to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action shall be reported to the Ministry/ Regional Office along with the Six monthly Compliance Report.
- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

#### **X. Miscellaneous**

- i. The Project Proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.

- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project Proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical parameters, indicated for the project and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. the project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).



- xi. Concealing factual data a submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. This project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information / monitoring reports.
- xv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xvi. Any appeal against the EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.