



सत्यमेव जयते

File No: SEIAA 36 IND 2023

Government of India

Ministry of Environment, Forest and Climate Change

(Issued by the State Environment Impact Assessment Authority(SEIAA), KARNATAKA)

\*\*\*



Date 27/11/2024



To,

K George Prabhu  
S.K.STEEL TECH  
Plot no, 47, 48 & 49, 1st Stage, Somapura, Nelamangala, Karnataka, 562123 , Pemmanahalli ,  
BENGALURU RURAL, KARNATAKA, , 562123  
sksteeltech1@gmail.com

**Subject:** Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 -regarding.

**Sir/Madam,**

This is in reference to your application submitted to SEIAA vide proposal number SIA/KA/IND1/468741/2024 dated 12/09/2024 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24B1008KA5200722N
(ii) File No.	SEIAA 36 IND 2023
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	3(a) Metallurgical Industries (ferrous and non ferrous) Expansion of TMT Bar production from 24,000 TPA to 2,40,000 TPA by replacing 4 no's of 4 TPH furnace with 4 no's of 40 TPH and establishment of M.S Pipes facility of 50,000 TPA by M/s. S K Steel Tech
(vii) Name of Project	
(viii) Name of Company/Organization	S.K.STEEL TECH
(ix) Location of Project (District, State)	BENGALURU RURAL, KARNATAKA
(x) Issuing Authority	SEIAA
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A, B and C)/ EIA & EMP Reports were submitted to the SEIAA for an appraisal by the SEIAA under the provision of EIA notification 2006 and its subsequent amendments.
4. The above-mentioned proposal has been considered by SEIAA in the meeting held on 29.10.2024 . The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above.
5. The brief about configuration of products and byproducts as submitted by the Project Proponent in orm-1 (Part A, B and C)/ EIA & EMP Reports / presented during SEIAA .
6. The SEIAA, in its meeting held on 29.10.2024, based on information submitted viz: Form 1 (Part A, B and C), EIA/EMP report etc & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and public hearing issues and compliance thereto furnished by the Project Proponent, recommended the proposal for grant of Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof subject to compliance of Specific and Standard EC conditions as given in this letter.
7. The SEIAA has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the State Environment Impact Assessment Authority(SEIAA) Appraisal Committee hereby accords Environment Clearance to the instant proposal of M/s. K George Prabhu under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in Annexure (1)
8. The Ministry reserves the right to stipulate additional conditions, if found necessary.
9. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
10. The Project Proponent is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
11. General Instructions:
12.
  - (a) 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 MoEF&CC/SEIAA website where it is displayed.
  - (b) 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.
  - (c) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing 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.
  - (d) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
  - (e) 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.
  - (f) 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.
  - (g) 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.
13. This issues with the approval of the Competent Authority

**Copy To**

1. The Secretary, Ministry of Environment, Forests and Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road,

Aliganj, New Delhi – 110 003.

2. The Member Secretary, Karnataka State Pollution Control Board, Bengaluru.

3. The APCCF, Regional Office, Ministry of Environment & Forests (SZ), Kendriya Sadan, IV Floor, E & F wings, 17<sup>th</sup> Main Road, Koramangala II Block, Bengaluru – 560 034.

4. Guard File.

## Annexure 1

### Specific EC Conditions for (Metallurgical Industries (Ferrous And Non Ferrous))

#### 1.1

S. No	EC Conditions
1.1	

### Additional EC Conditions

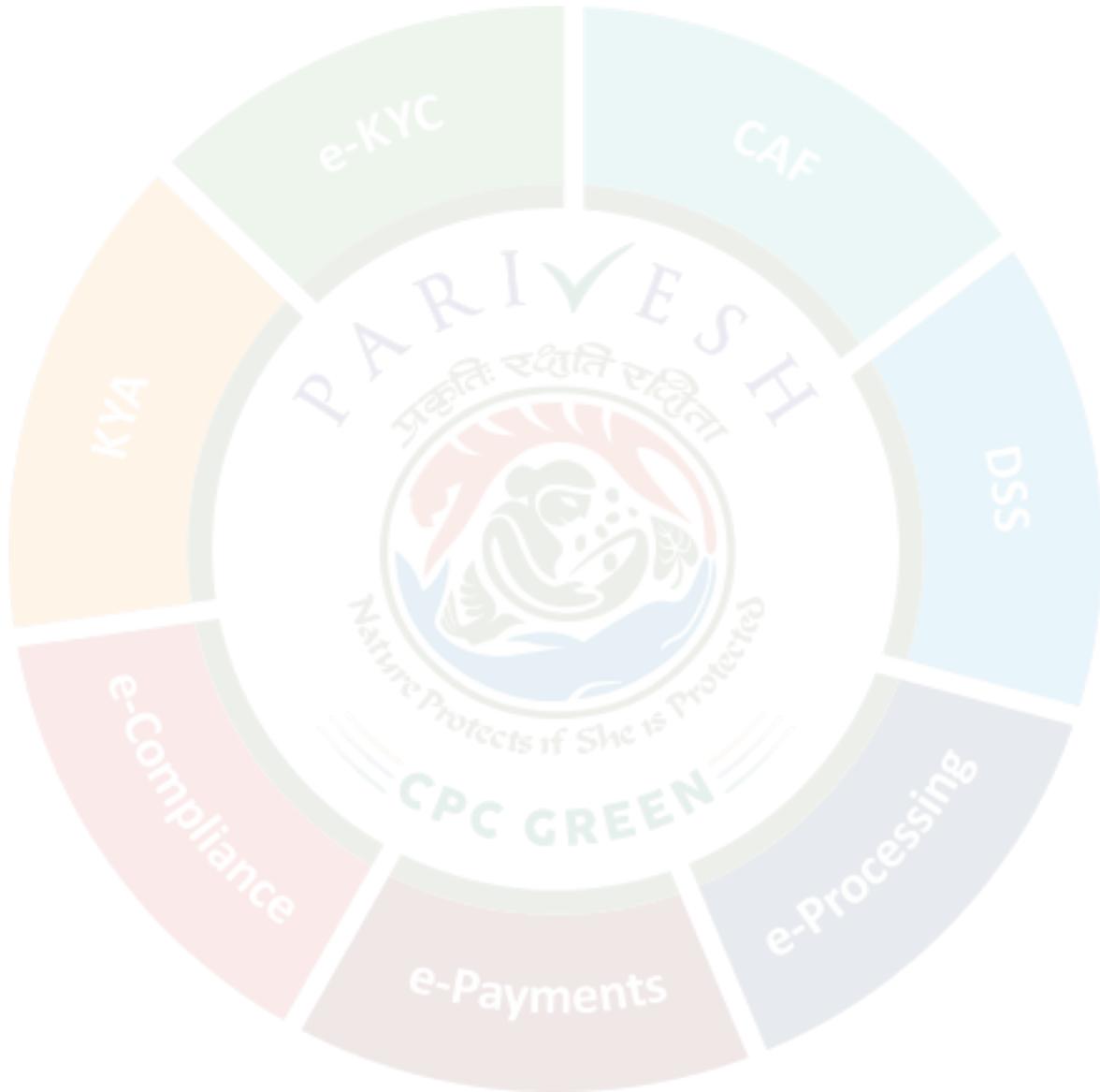
N/A

## Annexure 2

### Details of the Project

S. No.	Particulars	Details	
a.	Details of the Project	Expansion of TMT Bar production from 24,000 TPA to 2,40,000 TPA by replacing 4 no's of 4 TPH furnace with 4 no's of 40 TPH and establishment of M.S Pipes facility of 50,000 TPA by M/s. S K Steel Tech	
b.	Latitude and Longitude of the project site	13.22764128223923,77.26054745349057 13.23157451959041,77.26359628251176	
c.	Land Requirement (in Ha) of the project or activity	<b>Nature of Land involved</b>	<b>Area in Ha</b>
		Non-Forest Land (A)	2.225
		Forest Land (B)	0
		Total Land (A+B)	2.225
d.	Date of Public Consultation	Public consultation for the project was held on 2023-11-22	
e.	Rehabilitation and Resettlement (R&R) involvement	NO	

S. No.	Particulars	Details
f.	Project Cost (in lacs)	4430
g.	EMP Cost (in lacs)	455
h.	Employment Details	100





# State Level Environment Impact Assessment Authority-Karnataka

(Constituted by MoEF, Government of India, under section 3(3) of E(P) Act, 1986)

No. SEIAA 36 IND 2023

To,

Mr. K George Prabhu,  
Authorized Signatory  
M/s. S K Steel Tech  
#162/A, 2<sup>nd</sup> Main Road, Industrial Town,  
Rajajinagar, Bengaluru – 560010

Sir,

Sub: Expansion of TMT Bar production from 24,000 TPA to 2,40,000 TPA by replacing 4 no's of 4 TPH induction furnace with 4 no's of 40 TPH and establishment of MS Pipes facility of 50,000 TPA at Plot Numbers 47, 48 & 49 of 1<sup>st</sup> stage, Sompura, KIADB Industrial Area, and survey numbers 34/1, 34/2, 34/3, 34/4, 34/6, 35/2 to 35/8, 36/4, 54/2, 54/3, 55/1, 55/2 of Pemmanahalli Village, Sompura Hobli, Nelamangala Taluk, Bangalore Rural District by M/s. S K Steel Tech -Reg

\* \* \* \* \*

This has reference to your online application bearing proposal No.SIA/KA/IND1/438580/2023 received on 29.07.2023 and EIA Report bearing Proposal No.SIA/KA/IND1/468741/2024 dated 12.09.2024 addressed to SEIAA, Karnataka on the subject mentioned above. The proposal has been appraised as per procedure prescribed in the provisions under EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the application in Form-1, Pre-Feasibility Report, Environmental Management Plan, EIA Report and the additional clarification furnished in response to the observations of the SEAC, Karnataka.

2. The project proposal was issued standard ToR vide File No. SEIAA 36 IND 2023 dated 01.08.2023 for conducting Environment Impact Assessment (EIA) Study.

3. It is inter-alia, noted that M/s. S K Steel Tech got the EIA study conducted by AM Enviro Engineers, #90/1, 2nd Floor, Rathana vilas Road, Basavanagudi, Bangalore-560004 Karnataka, who have been accredited from NABET vide certificate No: NABET/EIA/2326/RA 0306\_Rev 01. The Public Hearing was conducted on 22.11.2023. The Environmental Impact Assessment report has been submitted on 12.09.2024. SEAC has recommended the following parameters for issue of Environmental Clearance in their meeting held on 19<sup>th</sup> September 2024.

Sl. No	Particulars	Information Provided by PP
1.	New/ Expansion/ Modification/	Expansion Environmental clearance has been issued earlier vide letter No. SEIAA 70 IND 2020 dated 13.01.2022.
2.	Plot Area (Sqm)	91,624 Sqm (Existing – 22,414 Sqm, Proposed - 69,210)

Sl. No	Particulars	Information Provided by PP						
		Sqm)						
3.	Built Up area (Sqm)	Existing - 13,348 Sqm Proposed – 17,790 Sqm Total - 31,138 Sqm						
4.	Component of developments	Expansion of TMT Bar production from 24,000 TPA to 2,40,000 TPA by replacing 4 no's of 4 TPH induction furnace with 4 no's of 40 TPH and establishment of MS Pipes facility of 50,000 TPA.						
5.	Details of Land Use (Sqm)							
	a.	Ground Coverage Area	Sl No	Land Description	Area (Sqm)			Area In%
	b.	Kharab Land			Existing	Proposed	Total	
	c.	Internal Roads	1	Ground Coverage	15,415	29,649	45,064	49.18
	d.	Paved area						
	e.	Parking	2	Road & Open Area	5,871	10,453	16,324	17.82
	f.	Green belt						
	g.	Others Specify	3	Greenbelt	1,129	29,107	30,236	33.00
				<b>Total</b>	<b>22,414</b>	<b>69,210</b>	<b>91,624</b>	<b>100</b>
	h.	Total						
6.	Products and By- Products with quantity (enclose as Annexure if necessary )	Sl. No.	Product	Quantity (MTA)				
				Existing	Proposed	Total		
		1	Induction Furnace	4 x 4 TPH	4 x 40 TPH	4 x 40 TPH (Existing will be replaced)		
		2	TMT Bars (Rolling Mill)	24,000	2,16,000	2,40,000		
	3	MS Pipes	-	50,000	50,000			
7.	Raw material with quantity and their source (enclose as Annexure if necessary )	Sl. No	Units	Raw Material	Quantity (TPA)			Source
					Exist ing	Propo sed	Total	
		1	MS Billets	Sponge Iron	27,005	2,43,042	2,70,047	Local Market
				Pig iron	3,634	32,705	36,339	Local Market
				Scrap/mill	2,901	26,108	29,009	Rolling Mill
	2	Rolling Mill	Hot metal/Billets	29,162	2,62,454	2,91,616	Induction furnace	
	3	MS Pipes	Narrow Strips	--	55,556	55,556	Rolling Mill	
8.	Mode of transportation of Raw	Mode of transportation: Road						

Sl. No	Particulars	Information Provided by PP
	material and storage facility	Storage facility: a) Raw materials which cause dust will be stored inside closed shed. b) Outdoor storage areas will be covered with a roof, and enclosed to prevent storm water contact.
9.	Transportation and storage facility for coal / Bio-fuel in case of thermal power plant	No thermal power plant proposed. Hence, not applicable.
10.	Fly ash production, storage and disposal details whereas coal is used as fuel	There is no fly ash generation from industry process.
11.	<b>WATER</b>	
	<b>I. Construction Phase</b>	
a.	Source of water	KIADB/Borewell
b.	Quantity of water for Construction in KLD	5
c.	Quantity of water for Domestic Purpose in KLD	1.25
d.	Waste water generation in KLD	1.12
e.	Treatment facility proposed and scheme of disposal of treated water	Will be treated in existing STP of capacity 25 KLD
	<b>II Operational Phase</b>	
a.	Source of water	KIADB/Borewell
b.	Total Requirement of Water in KLD	447.74 (Existing – 121.92, Proposed –325.82)
c.	Requirement of water for industrial purpose / production in KLD	336.2 (Existing – 104.72, Proposed –231.48)
d.	Requirement of water for domestic purpose in KLD	64.85 (Existing –10.0, Proposed - 54.85)
e.	Waste water generation in KLD	73.3 (Existing – 15.4, Proposed – 57.9)
f.	ETP/ STP capacity	Domestic sewage - STP of 25 KLD will be upgraded to 60 KLD There is no generation of industry effluent. Blow down water from cooling tower will be treated in RO and reused in Rolling Mill. Scrubbing water will be recycled completely.
g.	Technology employed for Treatment	Sequential Batch Reactor Technology
h.	Scheme of disposal of excess treated water if any	Treated water from STP is being used for gardening.
12.	Infrastructure for Rain water harvesting	Rooftop Rain water tanks of 2X280 KL will be provided with 2 days storage. Total runoff is approx. 290 cum/ day which will pass through the Oil & grease trap and Siltation tank and let into 50 numbers of recharge pits. The diameter of pit is 1200 mm & depth of 2000 mm deep filled with graded material along with injection well at the bottom of the pit.
13.	Storm water management plan	Storm water drains will be provided in and around

Sl. No	Particulars	Information Provided by PP					
		<p>the project site to channelize the water. The same will be de-silted and maintained periodically.</p> <p>Total runoff is approx. 290 cum/ day which will pass through the Oil &amp; grease trap and Siltation tank and let into 50 numbers of recharge pits.</p> <p>The diameter of pit is 1200 mm &amp; depth of 2000 mm deep filled with graded material along with injection well at the bottom of the pit.</p>					
14.	Air Pollution						
	a. Sources of Air pollution	<b>Sl. no.</b>	<b>Stack attached to</b>	<b>Fuel used</b>	<b>Fuel Consumption</b>	<b>Number of stacks</b>	<b>Stack height</b>
<b>Existing</b>							
1		DG Set 1X250 KVA	HSD	52L/hr	1	5 m AGL	
2		Induction furnace 2X4TPH	-	-	1	33 m AGL	
3		Induction furnace 2X4TPH (Stand by)	-	-	1	33 m AGL	
4		Reheating Furnace 7 TPH	Pulverized Coal	4 TPD	1	33 m AGL	
<b>Proposed</b>							
5		D.G. sets - 1X500 KVA	HSD	104 L/hr	1	6.5m ARL	
6		Induction furnace 2X40 TPH	--	--	1	50m AGL	
7		Induction furnace 2X40 TPH (Standby)	--	--	1	50m AGL	
8	Reheating Furnace 14 TPH (Existing furnace will be replaced)	Pulverized Coal	40 TPD	1	33m AGL		

Sl. No	Particulars	Information Provided by PP							
		SI. no.	Stack attached to	Constituents to be controlled					
b.	Composition of Emissions	<b>Existing</b>							
		1	DG Set 1X250 KVA	PM, SO <sub>x</sub> , NO <sub>x</sub>					
		2	Induction furnace 2X4TPH	PM					
		3	Induction furnace 2X4TPH (Standby)	PM					
		4	Reheating Furnace 7 TPH	PM, SO <sub>x</sub> , NO <sub>x</sub>					
		<b>Proposed</b>							
		5	D.G. sets – 1 X 500 KVA	PM, SO <sub>x</sub> , NO <sub>x</sub>					
		6	Induction furnace 2X40 TPH	PM					
		7	Induction furnace 2X40 TPH(Standby)	PM					
		8	Reheating Furnace 14 TPH(Existing furnace will be replaced)	PM, SO <sub>x</sub> , NO <sub>x</sub>					
		c.	Air pollution control measures proposed and technology employed	SI. no.	Stack attached to	Fuel used	Fuel Consumption	Air Pollution Control unit	Constituents to be controlled
				<b>Existing</b>					
1	DG Set 1X250 KVA			HSD	52 L/hr	Acoustic Enclosure	PM, SO <sub>x</sub> , NO <sub>x</sub>		
2	Induction furnace 2X4TPH			-	-	Cyclone separator, Dust Collector, Scrubber	PM		
3	Induction furnace 2X4TPH(Standby)			-	-	Cyclone separator, Dust Collector, Scrubber	PM		
4	Reheating Furnace 7 TPH			-	4 TPD	Cyclone separator, Dust Collector	PM, SO <sub>x</sub> , NO <sub>x</sub>		
<b>Proposed</b>									
5	D.G.sets– 1 X 500 KVA			HSD	104 L/hr	Acoustic Enclosure	PM,SO <sub>x</sub> , NO <sub>x</sub>		

Sl. No	Particulars	Information Provided by PP					
		6	Induction furnace 2X40 TPH	--	--	Cyclone separator, Dust Collector, Scrubber	PM
		7	Induction furnace 2X40 TPH (Standby)	--	--	Cyclone separator, Dust Collector, Scrubber	PM
		8	Reheating Furnace 14 TPH (Existing furnace will be replaced)	Pulverized Coal	40 TPD	Cyclone separator, Dust Collector	PM, SOx, NOx

15.	Noise Pollution	
a.	Sources of Noise pollution	DG Sets, Steel Melting Shop, Rolling Mill, Vehicles
b.	Expected levels of Noise pollution in dB	Below 75 dB (A)
c.	Noise pollution control measures proposed	DG sets are provided with Acoustic enclosures. Greenbelt development in and around the plant area Personal protective equipment's (PPEs) such as earplugs and earmuffs to all workers Regular maintenance of vehicles will be ensured

16. WASTE MANAGEMENT

I.	Operational Phase																																								
a.	Quantity of Solid waste generated per day and their disposal	<table border="1"> <thead> <tr> <th rowspan="2">Sl No</th> <th rowspan="2">Solid waste</th> <th colspan="3">Quantity</th> <th rowspan="2">Mode of disposal</th> </tr> <tr> <th>Existing</th> <th>Proposed</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td colspan="6"><b>Solid Waste Industrial</b></td> </tr> <tr> <td>1</td> <td>Slag</td> <td>3,603</td> <td>40,176</td> <td>43,779</td> <td>Slag is being crushed, and metal part will be recovered by magnetic separator and rest part will be used for road construction/sent to cement plants.</td> </tr> <tr> <td>2</td> <td>Mill Scale</td> <td>2,916</td> <td>26,246</td> <td>29,162</td> <td>Reused in the plant</td> </tr> <tr> <td>3</td> <td>Scrap</td> <td>2,245</td> <td>20,209</td> <td>22,454</td> <td>Reused in the plant</td> </tr> <tr> <td colspan="6"><b>Solid Waste Domestic</b></td> </tr> </tbody> </table>	Sl No	Solid waste	Quantity			Mode of disposal	Existing	Proposed	Total	<b>Solid Waste Industrial</b>						1	Slag	3,603	40,176	43,779	Slag is being crushed, and metal part will be recovered by magnetic separator and rest part will be used for road construction/sent to cement plants.	2	Mill Scale	2,916	26,246	29,162	Reused in the plant	3	Scrap	2,245	20,209	22,454	Reused in the plant	<b>Solid Waste Domestic</b>					
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b.	Quantity of Hazardous Waste generation with source and mode of Disposal as per norms																																								
c.	Quantity of E waste generation with source and mode of Disposal as per norms																																								

Sl. No	Particulars	Information Provided by PP					
		4	Domestic	40	152	192	The organic waste will be treated in organic waste converter of capacity 100 kg/day. The inorganic solid waste is handed over to authorized recyclers.
<b>Hazardous waste</b>							
		5	Used Spent Oil	0.196 MT/A	1.96	2.156	Disposed to KSPCB authorized recyclers
		6	Waste residues containing oil	0.2 MT/A	2	2.2	Disposed to KSPCB authorized recyclers
17.	Risk Assessment and disaster management	Risk Assessment and disaster management plan has been prepared. An Emergency Control Room (ECR) is established from which emergency operations are directed and coordinated. Training was given to all workers and all emergency aids were provided within the industry. An onsite emergency plan also prepared and followed by the industry.					
18.	<b>POWER</b>						
	a.	Total Power Requirement in the Operational Phase with source <b>Power requirement: 28 MW (14 MW Existing and 14 MW Proposed) Source: BESCO</b>					
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply <b>1 X 500 KVA (proposed) &amp; 1 X 250 KVA (existing)</b>					
	c.	Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc., <b>D.G. set – 1 X 500 KVA &amp; 1 X 250 KVA- HSD Reheating Furnace 14 TPH -Pulverized Coal</b>					
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007 <b>Not applicable</b>					
19.	<b>PARKING</b>						
	a.	Parking Requirement as per norms <b>Parking requirement –18 Parking Provided - 20</b>					
20.	EMP						<b>Capital cost - 471 Lakhs Recurring cost - 40 Lakhs/year</b>
21.	Employment details						
22.	Project cost (Rs. In crores)						<b>28.50 Crores</b>

4. The SEIAA Karnataka in its meeting held on 29<sup>th</sup> October 2024, after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations and has accepted the recommendation of SEAC and has decided to accord Environmental Clearance in accordance with the provisions of Environmental Impact Assessment Notification-2006 and its subsequent amendments, subject to strict compliance of the following terms and conditions: -

### **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.
- 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. (Incase of the presence of schedule-1 species in the study area)
- 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) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised 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 install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 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.
- 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 21st July, 2010 and amended from time to time shall be followed.
- vii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th 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 projects 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 projects 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 Air/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 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.
- 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 the 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 preferably be LED based.

#### **VI. Waste 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 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 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.
- 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, creche 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 on public places

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

- i. The project proponent shall comply with provision contained in OM vide F.No. 22-65/2017-IA.III dated 20th October 2020, of the Ministry of Environment, Forest and Climate Change as applicable, regarding Corporate Environment Responsibility and shall execute the action plan of Construction of Groundwater Recharge pits at nearby Villages (3 pits each) in Pemmanaha Ili, Bharathipura and Bank protection, de weeding and de-silting in Pemmanaya kana Halli Lake, as submitted in PARIVESH Portal. Contact details and Email Ids of Beneficiary in this regard shall be submitted to SEIAA while furnishing the Half Year Compliance report.
- ii. The company shall have a well laid down environmental policy duly approve 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 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 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 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; PM10, 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.
- 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 HYCRs with its contents of a covering letter, compliance reports, and environmental monitoring data has to be in PDF format merged into a single document. The email should clearly mention the name of project, EC No & date, period of submission and to be sent to the Regional Office of MOEF&CC by email only at email ID [rosz.bng-mefcc@gov.in](mailto:rosz.bng-mefcc@gov.in) Hard copy of HYCRs shall not be acceptable".
- vii. 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.
- viii. 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.

- ix. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- x. 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.
- xi. No further expansion or modifications in the plant shall be carried out without prior approval of this Authority or the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xii. 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.
- xiii. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiv. The SEIAA reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xv. The Regional Office of MoEF&CC 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.
- xvi. 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.
- xvii. 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.

**Additional Condition:**

1. The PP shall provide thick 5 row green belt all along the boundary.
2. Metal scrap contaminated with oil & grease shall be avoided. If required it is to be used after degreasing.
3. Air & Noise Pollution prevention measures to be adopted so that, no complaint from nearby habitat.
4. ID fan of higher capacity to be used.
5. First priority to be given to local employment and comply to Sarojini Mahishi report.

6. ZLD to be adopted.

Yours faithfully,

(Vijay Mohan Raj V)  
Member Secretary,  
SEIAA, Karnataka.

**Copy to:**

- 1) The Secretary, Ministry of Environment, Forests and Climate Change, Indira ParyavaranBhavan, JorBagh Road, Aliganj, New Delhi- 110 003.
- 2) The Member Secretary, Karnataka State Pollution Control Board, Bangalore.
- 3) The APCCF, Regional Office, Ministry of Environment & Forests (SZ), KendriyaSadan, IV Floor, E & F wings, 17<sup>th</sup> Main Road, Koramangala II Block, Bangalore – 560 034.
- 4) Guard File.

