



सत्यमेव जयते

File No: SEIAA 12 IND 2023
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment
Authority(SEIAA), KARNATAKA)



Date 30/01/2025



To,

Mr. RAHUL GUPTA
M/s APL Apollo Tubes Limited (formerly Apollo Tricoat Tubes Limited)
106, Hargovind Enclave,Shakarpur,East Delhi, Delhi -110092

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/IND1/448431/2023 dated 07/11/2024 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.	EC23B1012KA5912061N
(ii) File No.	SEIAA 12 IND 2023
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	3(a) Metallurgical Industries (ferrous and non ferrous)
(vii) Name of Project	APL APOLLO TUBES LIMITED
(viii) Name of Company/Organization	RAHUL GUPTA
(ix) Location of Project (District, State)	KOLAR, 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 16.01.2025 . 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 form-1 (Part A, B and C)/ EIA & EMP Reports / presented during SEIAA are annexed to this EC .
6. The SEIAA, in its meeting held on 16.01.2025, 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. RAHUL GUPTA under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given
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.
12. General Instructions:
 - (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, 17th

Annexure 1**Specific EC Conditions for (Metallurgical Industries (Ferrous And Non Ferrous))****1.1**

S. No	EC Conditions
1.1	NA

Additional EC Conditions

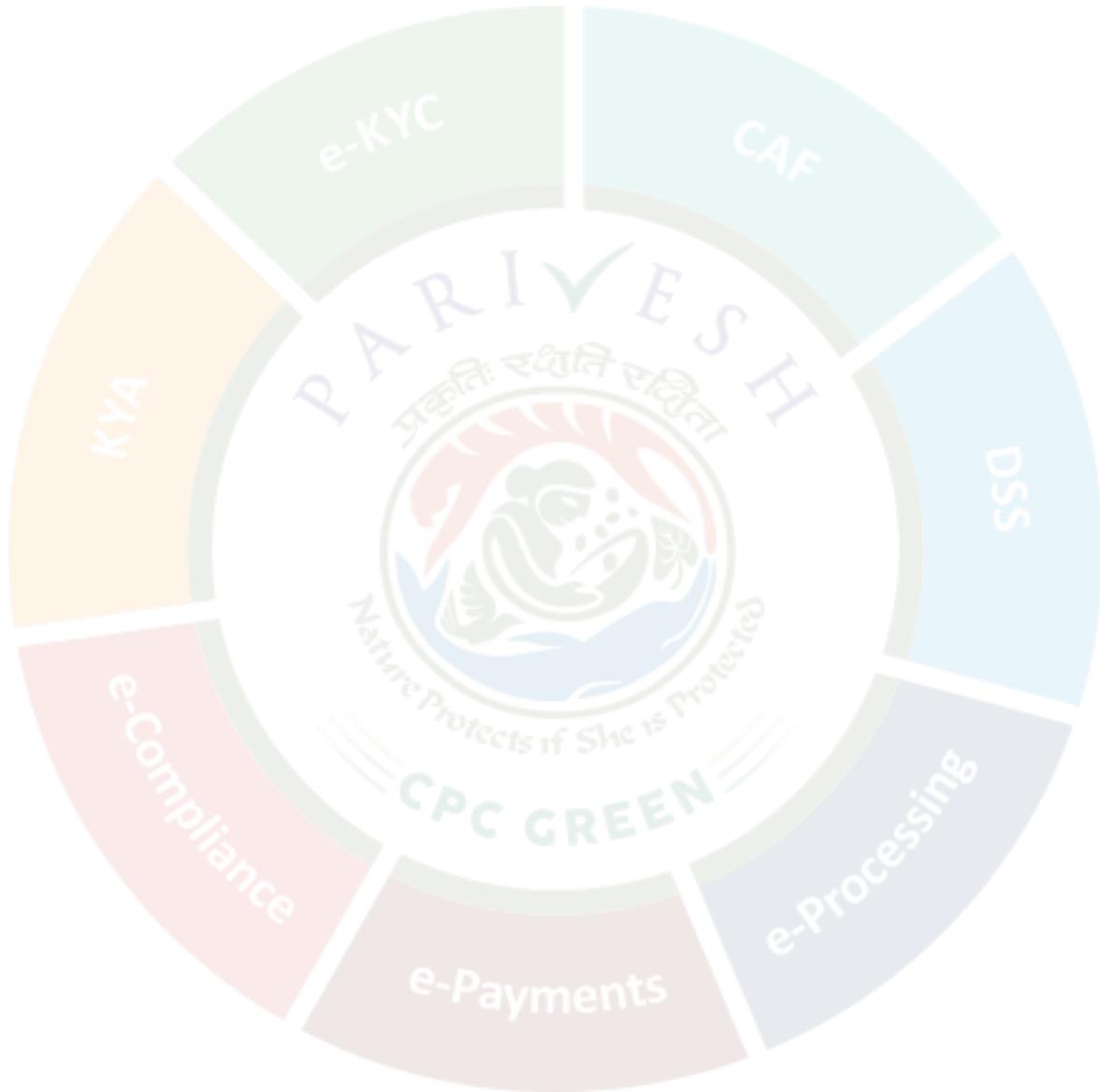
N/A

Annexure 2**Details of the Project**

S. No.	Particulars	Details	
a.	Details of the Project	APL APOLLO TUBES LIMITED	
b.	Latitude and Longitude of the project site	12.97819083904436,77.91003589518355 12.98237370877736,77.91281735902659	
c.	Land Requirement (in Ha) of the project or activity	Nature of Land involved	
		Area in Ha	
		Non-Forest Land (A)	70821
		Forest Land (B)	0
	Total Land (A+B)	70821.0	
d.	Date of Public Consultation	Public consultation for the project was held on	
e.	Rehabilitation and Resettlement (R&R) involvement	NO	
f.	Project Cost (in lacs)	20847.41	
g.	EMP Cost (in lacs)	132.5	
h.	Employment Details	400 No.	

Details of Products & By-products

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Galvanized steel pipes	Product	360000	Tons per Annum (TPA)	Road	Manufacturing of galvanized steel pipes of 30,000.00 MTPM





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State Level Environment Impact Assessment Authority-Karnataka

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

No. SEIAA 12 IND 2023

To,

Sri Rahul Gupta
S/o Sanjay Gupta,
Managing Director
M/s. APL Apollo Tubes Limited
(formerly Apollo Tricoat Tubes Limited)
#106, Hargovind Enclave,
Shakarpur, East Delhi,
Delhi – 110092

Sir,

Sub: Manufacturing of Galvanized Steel Pipes Plant Project at Plot No. 53-Part-1, 4th Phase, KIADB Industrial Area bearing Sy. Nos.28, 29/1, 29/2 & 30-33 of Koorandalli Village and additional Sy.Nos.28/2, 28/3, 28/4, 28/5, 28/6 & 28/7 of Koorandahalli Village, Malur Taluk, Kolar District by M/s. APL Apollo Tubes Limited (formerly Apollo Tricoat Tubes Limited) - Issue of Environmental Clearance -Reg

* * * * *

This has reference to your online application dated 21.07.2023 bearing proposal No.SIA/KA/IND1/437484/2023 and EIA Report bearing Proposal No. SIA/KA/IND1/448431/2023 dated 07.11.2024 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 12 IND 2023 dated 28.07.2023 for conducting Environment Impact Assessment (EIA) Study.

3. It is inter-alia, noted that M/s. APL Apollo Tubes Limited (formerly Apollo Tricoat Tubes Limited) got the EIA study conducted by Mr. Muniraju G, S/o Sri. Gangappa, Ganga Enviro Tech, Ganga Dwaraka Layout, IV Cross, Subhash Nagar, Nelamangala, Bangalore - 562 123 in respect of whom the Applicability of the Notification No. S.O 648 (E) dated 3rd March 2016 issued by the MoEF, GoI, regarding mandatory accreditation of Environmental consultant from NABET/QCI stands deferred in view of the interim order granted by Hon'ble High court of Karnataka in W.P. Nos 15026-15038/2016 (GM-RES) dated 21st March 2020 of Honorable High Court of Karnataka at Bangalore from being covered by the accreditation OM issued by MoEF. The Public Hearing was conducted on 05.10.2023. The Environmental Impact Assessment report has been submitted on 10.11.2023. SEAC has recommended the

following parameters for issue of Environmental Clearance in their meeting held on 13th & 14th November 2024.

Sl.No	Particulars	Information					
1.	New/ Expansion/ Modification/	New EC (Applicable for Expansion of production)					
2.	Plot Area (Sqm)	70821 Sqm. (17Acres-23Guntas) (Existing 13A + Proposed 4A-23G)					
3.	Built Up area (Sqm)	43055.43Sqm (existing 30969.37 * proposed 12086.06Sqm)					
4.	Component of developments	Increase in production of Galvanized Steel Pipes from 5000MTPM to 30000MTPM					
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						
	d. Paved area						
	e. Parking	1	Ground Coverage	30969.37	11438.63	42408.00	59.88
	f. Green belt	2	Road & Open Area	3952.07	1090.00	5042.07	7.12
	g. Others Specify	3	Greenbelt	17687.56	5683.37	23370.93	33.00
	h. Total		Total	52609	18212	70821	100
6.	Products and By- Products with quantity (enclose as Annexure if necessary)	Sl. No.	Product	Quantity (MTA)			
				Existing	Proposed	Total	
		1	Galvanized Steel Pipes	60000	300000	360000	
7.	Raw material with quantity and their source (enclose as Annexure if necessary)	Sl. No.	Raw material	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)	Source
		1.	Hydrochloric Acid (HCL)	400 KL/M	250 KL/M	650 KL/M	From the local suppliers except Steel Strips/Coils, this will be supplied by JSW.
		2.	LDO (Light Diesel Oil)	600 KL/M	-	600 KL/M	
		3.	Propane Gas/LPG	40 Tons/M	650 Tons/M	690 T/M	
		4.	Zinc (Zn)	25 Tons/M	625 Tons/M	650 T/M	
		5.	Rolling Mill Emulsion	-	20 KL/M	20 KL/M	
		6.	Zinc (Zn)	25	-	25	

Sl.No	Particulars	Information																									
		<table border="1"> <tr> <td></td> <td>Rich Paint</td> <td>KL/M</td> <td></td> <td>KL/M</td> </tr> <tr> <td>7.</td> <td>Degreasing Chemical (NaOH)</td> <td>20 KG/M</td> <td>1450 KG/M</td> <td>1470 KG/M</td> </tr> <tr> <td>8.</td> <td>Chromatin Solution</td> <td>20 KG/M</td> <td>100K G/M</td> <td>120 KG/M</td> </tr> <tr> <td>9.</td> <td>Gear Oil & Hydraulic Oil</td> <td>1000L trs/M</td> <td>1250L trs/M</td> <td>2250L /M</td> </tr> <tr> <td>10.</td> <td>Steel Strips/Coils</td> <td>5050 MT/M</td> <td>26750 MT/M</td> <td>31800 MT/M</td> </tr> </table>		Rich Paint	KL/M		KL/M	7.	Degreasing Chemical (NaOH)	20 KG/M	1450 KG/M	1470 KG/M	8.	Chromatin Solution	20 KG/M	100K G/M	120 KG/M	9.	Gear Oil & Hydraulic Oil	1000L trs/M	1250L trs/M	2250L /M	10.	Steel Strips/Coils	5050 MT/M	26750 MT/M	31800 MT/M
	Rich Paint	KL/M		KL/M																							
7.	Degreasing Chemical (NaOH)	20 KG/M	1450 KG/M	1470 KG/M																							
8.	Chromatin Solution	20 KG/M	100K G/M	120 KG/M																							
9.	Gear Oil & Hydraulic Oil	1000L trs/M	1250L trs/M	2250L /M																							
10.	Steel Strips/Coils	5050 MT/M	26750 MT/M	31800 MT/M																							
8.	Mode of transportation of Raw material and storage facility	By Road																									
9.	Transportation and storage facility for coal / Bio-fuel in case of thermal power plant	NA																									
10.	Fly ash production, storage and disposal details whereas coal is used as fuel	NA																									
11.	WATER																										
I.	Construction Phase																										
a.	Source of water	Tankers/KIADB																									
b.	Quantity of water for Construction in KLD	10KLD																									
c.	Quantity of water for Domestic Purpose in KLD	2KLD																									
d.	Waste water generation in KLD	Sewage -1.60KLD																									
e.	Treatment facility proposed and scheme of disposal of treated water	Disposed to existing 15KLD STP																									
II	Operational Phase																										
a.	Source of water	Tankers/KIADB																									
b.	Total Requirement of Water in KLD	588.52KLD																									
c.	Requirement of water for industrial purpose / production in KLD	570.52KLD																									
d.	Requirement of water for domestic purpose in KLD	18KLD																									
e.	Waste water generation in KLD	Trade Effluent – 196.2KLD Sewage – 14.72KLD																									
f.	ETP/ STP capacity	150KLD & 50KLD ETPs with 3stage RO, MEE & ATFD. ZLD facility 15KLD STP																									
g.	Technology employed for	STP-MBBR																									

Sl.No	Particulars		Information					
		Treatment	ETP-Physico Chemical Treatment followed by Recycling System					
	h.	Scheme of disposal of excess treated water if any	Effluent is 100% recycled Sewage will be Reused for Gardening					
12.	Infrastructure for Rain water harvesting		1lakh ltrs storage tank. Recharge pits at 30m interval					
13.	Storm water management plan		Well laid internal storm water drains followed by connection to external storm water drain					
14.	Air Pollution							
			Sl. no.	Stack attached to	Fuel used	Fuel Consumption	Number Of stacks	Stack height
			Existing					
			1	DG Set 1250 KVA-2Nos	HSD	250ltrs per hour @ 100% load	2	33m AGL
			2	Pickling Section	-	-	1	20m AGL with Scrubber
			3	Boiler-3 TPH	Propane / PNG	-	1	30m AGL
			4	Galvanizing Bath-1	-	-	1	20m AGL with Scrubber
	a.	Sources of Air pollution	5	Tube Mills-3 No's	Propane / PNG	-	3	9m AGL with Cyclones
			Proposed					
			6	Tube Mills-3 No's	Propane/ PNG	-	3	9m AGL with Cyclones
			7	Sludge Dryer	Propane/ PNG	-	1	30m AGL
			8	Galvanizing Bath-2	-	-	1	20m AGL with Scrubber
			9	Boiler-3 TPH	Propane/ PNG	-	1	30m AGL
			10	Boiler-4 TPH	Propane/ PNG	-	1	30m AGL
			11	Off Gas Stack (ARP)	Propane/ PNG	-	1	30m AGL Chimney with

Sl.No	Particulars	Information				
					Scrubber	
12	Air vent of Oxide bin(ARP)	Electricity	-		30m AGL Chimney with Dust Collector	
13	Zinc Pot Temperature Chamber Furnace (Galvanizing Bath-2)	Propane / PNG	-	1	20m AGL Chimney with Scrubber	
14	Alloy Making furnace-500KG capacity	Propane / PNG	-	1	20m AGL Chimney with Scrubber	
b.	Composition of Emissions	SI. no.		Stack attached to	Constituents to be controlled	
		Existing				
		1	DG Set 1250 KVA-2Nos	PM, SOx, NOx, NMHC		
		2	Pickling Section	Acid Mist		
		3	Boiler-3 TPH	NIL (Hot air vent)		
		4	Galvanizing Bath-1	PM		
		5	Tube Mills-3 No's	PM		
		Proposed				
		6	Tube Mills-3 No's	PM		
		7	Sludge Dryer	NIL (Hot air vent)		
		8	Galvanizing Bath-2	PM		30 m AGL
		9	Boiler-3 TPH	NIL (Hot air vent)		
		10	Boiler-4 TPH	NIL (Hot air vent)		
		11	Off Gas Stack(ARP)	Acid Mist		
12	Air vent of Oxide bin(ARP)	PM				
13	Zinc Pot Temperature Chamber	PM				

Sl.No	Particulars	Information					
			Furnace (Galvanizing Bath – 2)				
		14	Alloy Making furnace-500KG capacity		PM		
		SI. no.	Stack Attach ed to	Fuel used	Fuel Con sum ption	Air Pollution Control unit	Constituent s to be controlled
		Existing					
		1	DG Set 1250 KVA- 2Nos	HS D	250ltr s per@ 100% load	33m AGL	PM, SOx, NOx, NMHC
		2	Picklin g Section	-	-	20m AGL with Scrubber	Acid Mist
		3	Boiler- 3 TPH	Propane/ PNG	-	30m AGL	NIL (Hot air vent)
		4	Galvan izing Bath-1	-	-	20m AGL with Scrubber	PM
c.	Air pollution control measures proposed and technology employed	5	Tube Mills- 3 No's	Propane/ PNG	-	9m AGL with Cyclones	PM
		Proposed					
		6	Tube Mills-3 No's	Propane/ PNG	-	9m AGL with Cyclones	PM
		7	Sludge Dryer	Propane/ PNG	-	30m AGL	NIL (Hot air vent)
		8	Galvan izing Bath-2	-	-	20m AGL with Scrubber	PM
		9	Boiler-3 TPH	Propane/ PNG	-	30m AGL	NIL (Hot air vent)
		10	Boiler-4 TPH	Propane/ PNG	-	30m AGL	NIL (Hot air vent)
		11	Off Gas Stack(A RP)	Propane/ PNG	-	30m AGL Chimney with	Acid Mist

Sl.No	Particulars	Information					
					Scrubber		
		12	Air vent of Oxide bin(ARP)	Electricity	30m AGL Chimney with Dust Collector	PM	
		13	Zinc Pot Temperature Chamber Furnace (Galvanizing Bath - 2)	Propane/ PNG	20m AGL Chimney with Scrubber	PM	
		14	Alloy Making furnace- 500KG capacity	Propane/ PNG	20m AGL Chimney with Scrubber	PM	
15.	Noise Pollution						
	a. Sources of Noise pollution	DG Sets & Machineries					
	b. Expected levels of Noise pollution in dB	100dB(A)					
	c. Noise pollution control measures proposed	Acoustic Enclosure/Ear Plugs					
16.	WASTE MANAGEMENT						
	I. Operational Phase						
	a. Quantity of Solid waste generated per day and their disposal	Sl No	Solid waste	Quantity			Mode of disposal
				Existing	Proposed	Total	
	b. Quantity of Hazardous Waste generation with source and mode of Disposal as per norms	Solid Waste Industrial					
		1					
		2					
		3					
		Solid Waste Domestic					
		1	Dome stic				
	c. Quantity of E waste generation with source and mode of Disposal as per norms	Hazardous waste					
		1	Used/S pent Oil - 5.1	25K L/A	-	25KL/A	Disposed to authorized recyclers
		2	Oil and Grease skimming 35.4	1 KL/A	11 KL/A	12KL/A	Disposed to authorized Incineration
		3	Drilling	2	48	50KL/A	Disposed to

Sl.No	Particulars		Information				
			mud containing oil 2.3	KL/A	KL/A	A	authorized recyclers
			4 Empty barrels and containers contaminated with Hazardous waste 33.1	24MT/A	Since in actual the waste generation is only 5MT/A. It is reduced	10MT/A	Disposed to authorized recyclers
			5 Zinc fines or dust or ash or skimmin g in dispersible form 6.2	300MT/A	300MT/A	600MT/A	Disposed to authorized recyclers
			6 ETP Sludge 33	2400MT/A	Not increased as Acid Recovery Plant will be installed	2400MT/A	Disposed to authorized TSDF
			7 ATFD Salt	10MT/A	5MT/A	15MT/A	Disposed to authorized TSDF
			8 Wood	-	5000MT/A	5000MT/A	Disposed to authorized recyclers
			9 Paper	-	3.0MT/A	3.0MT/A	Disposed to authorized recyclers
			10 Metal scrap	2000MT/A	16000MT/A	18000MT/A	Disposed to authorized recyclers
17.	POWER						
	a.	Total Power Requirement in the	21352 KVA(28621.5HP)				

Sl.No	Particulars	Information
	Operational Phase with source	BESCOM
	b. Numbers of DG set and capacity in KVA for Standby Power Supply	1250 KVA X 2 Nos.
	d. Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	Switched over to PNG Also 5KW Solar power is being harvested
18.	PARKING	
	a. Parking Requirement as per norms	5 to 10trucks parking
19.	EMP	Rs.132.50 Lakhs capital Cost Rs.30.76 Lakhs Recurring Cost
20.	Employment Details	The total manpower requirement after expansion will be 400Nos and both skilled & unskilled workers will be employed by the industry.
21.	Project cost (Rs. In crores)	Existing -INR 7430.22 Lakhs Proposed -INR.13418.23 Lakhs Total - INR 20,847.41 Lakhs

4. The SEIAA Karnataka in its meeting held on 16th January 2025, 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 planting 500 saplings around Bylahalli Village, construction of Toilet Block in the Government School at Bylahalli Village, Installation of Solar Street Lamps in and around our factory and Bylahalli Village and Organizing health chekup camps in nearby villages, 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 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 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 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, 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 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 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. The PP shall comply with the opinions of public expressed during PH.
3. Air & Noise Pollution prevention measures to be adopted so that, no complaint from nearby habitat.
4. First priority to be given to local employment and comply to Sarojini Mahishi report.
5. 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 Paryavaran Bhavan, 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), Kendriya Sadan, IV Floor, E & F wings, 17th Main Road, Koramangala II Block, Bangalore – 560 034.
- 4) Guard File.