सत्यमेव जयते

Government of India
Ministry of Environment, Forest and Climate Change
IA Division
(Industrial Projects - 1)
***

Minutes of AGENDA FOR 34th MEETING OF THE EXPERT APPRAISAL COMMITTEE (INDUSTRY-1 SECTOR), SCHEDULED TO BE HELD ON 31st MAY 2023 Expert Appraisal Committee meeting Industrial Projects - 1 held from 31/05/2023 to 31/05/2023

Date: 07/06/2023

MoM ID: EC/MOM/EAC/519362/5/2023

Agenda ID: EC/AGENDA/EAC/519362/5/2023

Meeting Venue: N/A

Meeting Mode: Virtual

Date & Time:

31/05/2023	10:30 AM	06:00 PM

1. Opening remarks

Shri. Rajive Kumar, Chairman EAC welcomed the Committee members and opened the EAC meeting for further deliberations. Shri. Rajive Kumar also appreciated the efforts of the Ministry's Team (Industry 1 Sector) for preparation and uploading the agenda of the EAC meetings and draft record of discussion very scientifically, systematically and timely on Parivesh Portal. (ii) Details of Proposals and Agenda by the Member Secretary Dr. R. B. Lal, Scientist 'F' & Member Secretary, EAC (Industry-1 Sector) appraised to the Committee about the details of Agenda items to be discussed during this EAC meeting.

2. Confirmation of the minutes of previous meeting

Confirmation of the Minutes of the 30th and 31st Meeting of the EAC (Industry-1 Sector) held during 15th and 16th May, 2023 at MoEF&CC through VC. The EAC, having taken note that final minutes were issued after incorporating comments offered by the EAC (Industry-1 Sector) members on the minutes of its 30th and 31st Meeting of the EAC (Industry-1 Sector) held during 15th and 16th May, 2023 conducted through Video Conferencing, and noted that there is one modifications/factual correction, in the minutes of the 31st EAC meeting for the project/activities and same was incorporated in the Minutes of 32nd EAC meeting held on May 26th & 29th May 2023. Details of the proposals considered during the 34th meeting conducted through Video Conferencing, deliberations made and the recommendations of the Committee are explained in the respective agenda items as under

3. Details of proposals considered by the committee

Day 1 -31/05/2023

3.1. Agenda Item No 1:

3.1.1. Details of the proposal

Proposed Integrated Cement Project - Clinker (2 x 3.5 Million TPA), Cement (2 x 3.5 Million TPA), CPP (2 x 30

MW), WHRS (2 x 18 MW) and D.G. Set (2 x 6 MW) at Villages: Basawa & Turkani Johdi (Khirod), Tehsil: Nawalgarh, District: Jhunjhunu (Rajasthan) by M/s. UltraTech Cement Ltd. by **M/s. UltraTech Cement Ltd.** located at **JHUNJHUNU,RAJASTHAN**

Proposal For		Fresh EC	
Proposal No	**File No**	**Submission Date**	**Activity (Schedule Item)**
IA/RJ/IND1/426613/2023	IA-J-11011/307/2019-IA-II(IND-I)	18/05/2023	Cement plants (3(b))

3.1.2. Project Salient Features

1. M/s. UltraTech Cement Ltd. has made an online application vide proposal no.: IA/RJ/IND1/426613/2023 dated 18th May, 2023 along with copy of EIA/EMP report, in prescribed Form 2 and certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(b) Cement Plants and 1(d) Thermal Power Plants under Category "A" of the schedule of the EIA Notification, 2006 and appraised at Central Level.

1. Name of the EIA consultant: M/s. J.M. EnviroNet Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2023/SA 0172; Valid up to 07.08.2023, as on June 2, 2023].

Details submitted by Project proponent

1. The details of the ToR are furnished as below:

Date of Application	Consideration	Details	Date of Accord	ToR Validity
20.09.2019	12th meeting of Re-Constituted EAC held on 21st Oct., 2019	Terms of Reference	11.12.2019	10.12.2023

1. The project of M/s. UltraTech Cement Ltd. is located in Villages: Basawa & Turkani Johdi (Khirod), Tehsil: Nawalgarh, District: Jhunjhunu Rajasthan State is for proposed Integrated Cement Project - Clinker (2 x 3.5 Million TPA), Cement (2 x 3.5 Million TPA), CPP (2 x 30 MW), WHRS (2 x 18 MW) and D.G. Set (2 x 6 MW).

1. Environmental Site Settings:

S. No.	Particulars	Details	Remarks
i.	Total land	The total land area required for the proposed project is 164.69 ha {Project area - 159.74 (Plant & Colony/Guest House) + 4.95 ha belt conveyor}; out of which 0.05 ha is Government land and 164.64 ha is Private land.	Land use: Private Agricultural land and Government waste land and same will be converted into industrial use after introduction of the project.
	Land acquisition details	Out of total area i.e., 164.69 ha; 92.82 ha	-

S. No.	Particulars	Details	Remarks
ii.	as per MoEF&CC O.M. dated 7/10/2014	land under possession of company and for 53.0 ha land consent has been taken from landowners. Land acquisition of remaining land i.e., 18.87 ha is under process.	
iii.	Existence of habitation & involvement of R&R, if any.	**Plant Site:** 81 project affected families are present within the project site out of which 78 have Land and Homestead and 03 have only Land in the project site. **Study Area:** **Habitation** **Distance (km)** **Direction** Turkani Johadi Adjacent SW Basawa 1.5 Km East Khirod ~ 1.9 Km South Kemri Ki Dhani ~ 2.1 Km WSW Milo Ka Bas ~ 2.7 Km North west Dhani Kanakawali ~ 1 Km North East Total 50 villages are present in 10 km radius of the study area.	R & R is applicable. Rs. 14.77 Crores budget has been allocated for R & R of project affected families.
iv.	Latitude and Longitude of all corners of the project site	**Point** **Latitude** **Longitude**	-

S. No.	Particulars	Details	Remarks
		1. 27°46'48.31"N 75°17'50.14"E 1. 27°46'40.65"N 75°17'49.87"E 1. 27°46'40.46"N 75°17'43.26"E 1. 27°46'32.95"N 75°17'42.83"E 1. 27°46'32.48"N 75°17'37.21"E 1. 27°46'27.04"N 75°17'37.74"E 1. 27°46'26.57"N 75°17'39.95"E 1. 27°46'18.23"N	

S. No.	Particulars	Details	Remarks
		75°17'40.48"E 1. 27°46'13.52"N 75°17'42.02"E 1. 27°46'3.75"N 75°17'42.61"E 1. 27°46'2.24"N 75°18'5.97"E 1. 27°46'3.65"N 75°18'20.75"E 1. 27°46'7.58"N 75°18'32.40"E 1. 27°46'22.41"N 75°18'29.67"E 1. 27°46'24.04"N 75°18'37.19"E	

S. No.	Particulars	Details	Remarks
		1. 27°46'32.30"N 75°18'35.73"E 1. 27°46'31.98"N 75°18'32.75"E 1. 27°46'40.30"N 75°18'32.02"E 1. 27°46'40.11"N 75°18'19.97"E 1. 27°46'37.18"N 75°18'19.90"E 1. 27°46'37.21"N 75°18'16.85"E 1. 27°46'38.17"N 75°18'16.93"E 1. 27°46'38.46"N	

S. No.	Particulars	Details	Remarks
		75°18'11.21"E 1. 27°46'35.72"N 75°18'11.02"E 1. 27°46'34.87"N 75°18'8.04"E 1. 27°46'34.99"N 75°18'5.24"E 1. 27°46'34.79"N 75°18'2.31"E 1. 27°46'47.59"N 75°18'1.85"E 1. 27°46'3.51"N 75°18'10.93"E 1. 27°45'57.66"N 75°18'10.70"E	

S. No.	Particulars	Details	Remarks
		1. 27°45'57.71"N 75°18'6.36"E	
v.	Elevation of the project site	434 m to 443 m above mean sea level.	-
vi.	Involvement of Forest land if any.	No Forest Land is involved in the project site.	-
vii.	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area	**Plant site:** No water body exist within the project site. **Study area:** Udaipur Lohagarh Nadi (8.0 km in NE direction)	-
viii.	Existence of ESZ/ ESA/ national park/wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area.	**Study Area** • No National Park / ESZ / ESA / Wildlife Sanctuary / Biosphere Reserve / Tiger Reserve / Elephant Reserve etc. fall within 10 km study area. Therefore, NBWL approval is not applicable. • **List of Reserved and protected forests:** 1. Kolida Protected Forest (8.5 km in WNW direction) 2. Kushalpura Protected Forest (9.5 km in South direction)	-

1. The unit configuration and capacity of proposed project is given as below:

S. No.	Plant Equipment / Facility	Proposed Unit (Phase - I)		Proposed Unit (Phase - II)		Final (Phase - I + Phase - II)	
		Configuration	Capacity	Configuration	Capacity	Configuration	Capacity
1.	Clinker	Kiln - 10000 TPH	3.5 Million TPA	Kiln - 10000 TPH	3.5 Million TPA	Kiln - 2 x 10000 TPH	2 x 3.5 Million TPA
2.	Cement	Cement Mill - 2 x 275 TPH	3.5 Million TPA	Cement Mill - 2 x 275 TPH	3.5 Million TPA	Cement Mill - 4 x 275 TPH	2 x 3.5 Million TPA
3.	CPP	Boiler - 125 TPH	30 MW	Boiler - 125 TPH	30 MW	Boiler - 2 x 125 TPH	2 x 30 MW
4.	WHRS	18 MW	18 MW	18 MW	18 MW	2 x 18 MW	2 x 18 MW
5.	D.G Sets	6 MW	6 MW	6 MW	6 MW	2 x 6 MW	2 x 6 MW

1. The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

S. No	Raw Material	Requirements (Million TPA)			Source	App Tr
		Phase - I	Phase - II	Total		
1.	Limestone	5.25	5.25	10.5*	Captive Limestone Mine	1.0 Co Co
2.	Red Ochre/ Iron ore/ Laterite	0.14	0.14	0.28	Narayani, Chittorgarh& Bhilwara District of Rajasthan	270 Ro
3.	Gypsum	0.18	0.18	0.36	FCI (Khal Mines) & Rajasthan State Mines and Minerals (RSMM), Bikaner; Rajasthan State Mines and Minerals (RSMM), Nagore	280 Ro
4.	Fly ash	1.23	1.23	2.46	CPP, Jhajjar Power Plant (JPL)& Aravali Power Company Private Limited (APCPL) (NTPC), Jhajjar; RGTPP, Hissar, Suratgarh/Kota	145 Ro
*Note: The project will be implemented in two phases. The company has sufficient limestone to operate the first phase implementation of the second phase, the company will expand the production capacity of the captive limestone mine.						

1. The total water requirement is 1800 KLD (Phase - I: 1150 KLD and Phase - II: 650 KLD); which will be sourced from Ground Water. NOC for ground water withdrawal of 2000 KLD was obtained from CGWA vide letter No. CGWA/NOC/IND/REN/1/2023/7717 dated 1st May, 2023 which is valid up to 21st May, 2025.

1. Power requirement is 80 MW (Phase - I: 40 MW & Phase - II: 40 MW); which will be sourced from the Proposed CPP, WHRS and Rajasthan State Electricity Board and D.G. Set (plant lighting in case of emergency).

1. Baseline Environmental Studies:

Period	*Summer Season* (March to May, 2022)
AAQ parameters at 08 locations (Min and Max)	• $PM_{2.5}$ – 29.4 to 49.5 µg/m^3 • PM_{10} - 47.2 to 80.4 µg/m^3 • SO_2 - 5.6 to 13.2 µg/m^3 • NO_x - 9.6 to 20.9 µg/m^3 • CO - BDL to 0.78 mg/m^3
Incremental GLC level	• PM - 2.797 µg/m^3 (Within Plant Site in SE Direction) • SO_2 - 3.499 µg/m^3 (Level at ~400 m in SE Direction) • NO_x - 3.979 µg/m^3 (Level at ~430 m in SE Direction) • CO - 0.00132 mg/m^3 (Within Plant Site in SE Direction)
Ground water quality at 08 location	• pH - 7.16 to 7.8 • Total Hardness - 153.4 to 262.3 mg/l • Chlorides - 94.9 to 212.4 mg/l • Fluoride - 0.27 to 0.98 mg/l

	• Heavy Metals - Iron as Fe: 0.09 to 0.26 mg/l
Surface water quality at 01 locations	There is only one surface water body exist within 10 km radius study area from the project site i.e., Udaipur Lohagarh Ki Nadi (~8.0 km in NE direction). Surface water sample could not be collected, as the water body is seasonal water body and it was found dry during the baseline study period.
Noise levels Leq (Day and Night)	50.1 to 54.8 Leq dB (A) for day time and 40.7 to 44.7 Leq dB (A) for the night time.
Traffic assessment study findings	• Traffic study has been conducted SH - 8 which is approx. 8.0 km in NE direction from the project site and 25 - B which is approx. 2.0 km in East for the project site. • Transportation of raw material, fuel & finished product will be done as per details given below: • Limestone - via Covered belt Conveyor from Captive Limestone Mine • Fly ash – 100 % by road • Gypsum (Mineral, Chemical & Imported) - 50% by road & 50 % by rail • Red Ochre/ Iron ore/ Laterite - 50 % by road & 50 % by rail • Imported Coal /Indian - Domestic Coal (Cement Plant & CPP) - 50 % by road & 50 % by rail • Petcoke (Imported / Indian) (Cement Plant) - 50 % by road & 50 % by rail • Clinker - 50 % by road & 50 % by rail • Cement - 50 % by road & 50 % by rail Existing PCU and LOS of SH - 8 and 25 - B is given below: **Road** **V** **(Volume in PCU/hr.)** **C** **(Capacity in PCU/hr.)** **Existing** **V/C Ratio** **LOS** SH - 8 300.3 3600* 0.08 A 25 - B 212.4 1500* 0.14

	A ** Capacity as per IRC: 106-1990 Guidelines.* • PCU load after proposed project at SH - 8 will be 300.3 (Existing) + 174.36 (Additional) PCU/hr. and level of service (LOS) will be A. • PCU load after proposed project at 25 - B will be 212.4 (Existing) + 174.36 (Additional) PCU/hr. and level of service (LOS) will be A **Road** **V** **(Volume in PCU/hr.)** **C** **(Capacity in PCU/hr.)** **Existing** **V/C Ratio** **LOS** SH - 08 300.3 + 174.36= 474.66 3600* 0.13 A 25 - B 212.4 + 174.36 = 386.76 1500* 0.25 B ** Capacity as per IRC: 106-1990 Guidelines.* ***Conclusion:*** The level of service is "A" on SH - 08 and "B' on 25 - B after including the additional traffic due to the proposed project.
Flora and fauna	24 Schedule - I species was found within 10 Km radius. Wildlife Conservation Plan for Schedule - I species has been prepared and submitted to DCF, Jhunjhunu and PCCF, Jaipur on 20th Jan., 2023 for authentication. A Budget of Rs. 25 Crore is allotted for the implementation of Wildlife Conservation Plan.

1. The details of solid and hazardous waste generation along with its mode of treatment/disposal is furnished as below:

S. No.	Type of Waste	Source	Quantity	Treatment / Disposal
1.	Dust	Cement Plant	124244 TPA	Dust collected from various APCEs will be totally recycled into the process.
2.	Fly ash	CPP	18000	Will be used in manufacturing of PPC

S. No.	Type of Waste	Source	Quantity	Treatment / Disposal
			Tonnes/month	grade cement
3.	STP Sludge	STP (200 KLD (50 KLD Plant + 150 KLD Guest house/ colony)	80 kg/ day	Will be used as manure for greenbelt development / plantation
4.	Used Oil, Contaminated cotton rags or other cleaning materials	Plant Maintenance	Used oil - 40 TPA	Will be used in Kiln as co-processing as per Hazardous Waste Management Rules, 2016.
			Contaminated cotton rags or other cleaning materials - 25 TPA	
	Empty barrels/containers/liners		20 TPA	Will be sold to CPCB registered recycler as per Hazardous Waste Management Rules, 2016.
	Used Batteries		10 TPA	Will be sold to CPCB registered recycler as per Batteries (Management & Handling) Rules, 2001.
5.	Bottles, Paper, Cans, Textiles, etc.	MSW	24 TPA	Will be sold to registered recycler.
	Kitchen and canteen/ Green waste			Organic waste will be utilized as manure for greenbelt development/ plantation.

1. Public Consultation:

Details of advertisement given	Public Hearing Advertisement published in Newspapers Dainik Bhaskar" on 24th Nov., 2022" & The Times of India" on 25th Nov., 2022."
Date of Public Consultation	27th December, 2022 (Tuesday) at 11:00 AM
Venue	At Seth Sitaram Kayal, Government Sr. Secondary School, Basawa, Tehsil: Nawalgarh, District - Jhunjhunu (Rajasthan).
Presiding Officer	• **Shri Jagdish Prasad Gaud** Additional District Magistrate, Jhunjhunu • **Shri Deepak Dhantewal** Regional Officer, Rajasthan State Pollution Control Board, Rajasthan
Major issues raised	Employment, Environment & Pollution, Water, Land, Health, Socio Economic Development, Plantation, etc.

Action plan as per MoEF&CC O.M. dated 30/09/2020:

Concerns raised during the Public Hearing	Physical activity to be done	PHASE - 1 1st Year Location / Area	Budget in Lakhs	Unit of Measure 2nd Year Location / Area	I
Employment	Establishment of Skill Development Centre for providing short duration programs for unemployed youth in the field of domestic electrician, plumber, mobile repairing etc.	01 Centre (Village Khirod)	20	01 Centre (Village Basawa)	
	Various Sustainable Livelihood Programme for Women and Construction of Sewing, Tailoring & Computer Center	01 Centre (Village Basawa)	10	01 Centre (Village Khirod)	
Socio-Economic Development	**Infrastructure Development**				
	Repair / Restoring the Village Pathways/Road	02 No. (Basawa & Khirod)	100	01 Nos (Villages Turkani Johdi & Khemri Ki dhani)	
	Installation of Street Light	150 nos. (Village Basawa)	10	150 nos. (Village Khirod)	
	Installation of Solar Light	25 nos. (Village Khirod)	10	25 nos. Village Basawa	
	Solar System at School	02 No. (Khirod)	20	02 No. (Turkani)	
	Maintenance of Drainage system in nearby villages	Village Khirod	25	Village Basawa	
	Development of small Playgrounds/ Mini Parks (Parkettes)	Village Basawa	10	Village Khirod	
	Construction of community toilet in public places	5No. (Village Basawa)	15	5 No. (Village Khirod)	
	Provide vehicles for garbage collection under Swachh Bharat Mission	01 No. (Village Khirod)	10	01 No. (Village Basawa)	
	Construction of community centre	01 No. (Village Khirod)	100	–	
	Ground Water Conservation				
	Restoration of Water ponds / percolation tanks by desilting, clearing the water paths, strengthening the banks etc., and Development of wells and	01 No. (Village Basawa)	50	01 No. (Village Khirod)	

Concerns raised during the Public Hearing	Physical activity to be done	PHASE - 1			Unit of Measure
		1st Year		2nd Year	
		Location / Area	Budget in Lakhs	Location / Area	
	stepwell				
	Renovation and Maintenance of exiting water conservation structures, deepening / desilting of ponds etc.	01 No. (Village Basawa)	30	01 No. (Village Khirod)	
	Promotion & training on New Irrigation methods such as solar pumps, drip irrigation etc.	02No. (Village Khirod & Basawa)	18	1 No. (VillageTurkani Johdi)	
	Rainwater harvesting structures on Govt. School Building	01 No. (Khirod & Basawa)	20	01 Nos (Villages Turkani Johdi)	
	Safe Drinking water				
	Installation of RO/UV Plants to provide safe drinking water at community places	03 No. (Village Basawa)	30	03 No. (Village Khirod)	
	Construction of Tank for storage of water	2 No. (Village Khirod)	80	2 No. (Village Basawa)	
	Development of pipeline works	1 No. (Village Basawa)	20	1 No. (Village Khirod)	
	Maintenance/renovation of existing tube well, borewell & handpump	02 No. (Village Basawa & Khirod)	15	02 No. (Village Mohanwadi & Village Turkani ki Johdi)	
	Installation of Tubewells and Borewells in nearby villages	4 No. (Village Khirod)	80	3 No. (Village Basawa)	
	Education Related				
	Upgradations/Renovation of Classrooms & Toilets in Schools of nearby Villages	02 No. (Basawa & Khirod)	10	01 No. (Village Mohanwadi)	
	Providing 20 sets of Table and chair in nearby Government Schools	02 No. (Basawa & Khirod)	5	01 Nos (Village Turkani Johdi)	
	Providing sports kit and organizing sports meet in nearby villages	1 No. (Village Khirod)	5	1 No. (Village Basawa)	

		PHASE - 1			Unit of Measure
Concerns raised during the Public Hearing	**Physical activity to be done**	**1st Year**		**2nd Year**	
		Location / Area	**Budget in Lakhs**	**Location / Area**	
	Installation of Smart classes in the Government schools to promote Digital education	1 No. (Village Basawa)	10	1 No. (Village Khirod)	
	Levelling of Sports Ground in School	Village Basawa	5	Village Khirod	
	Celebration of Social Events	Village Basawa & Khirod	5	Village Basawa & Khirod	
	Provide computer set in Govt Schools village Basawa-Khirod & Turkani Johdi as well as computer training program will be organized to train students of nearby villages	10 No. (Village Basawa)	10	10 No. (Village Khirod)	
	Health Related				
	Ambulance will be provided for villages	1 No. Khirod	15	01 No. (Village Basawa)	
	Construction of dispensary Centre and providing first aid kits in schools	2 No. (Village Khirod & Basawa)	20	01 No. (Village Mohanwadi & Khemri Ki dhani)	
	Providing Mobile Medical Van (medicine & checkup), medical investing equipment's and organizing Health camps in Villages (Basawa, Khirod, Mohanwadi & Turkani Ki johdi)	2 No. (Village Khirod & Basawa)	15	01 No. (Village Turkani Ki Johdi)	
	Renovation and construction of Community health center	01 No. (Village Basawa)	50	01 No. (Village Khirod)	
Agriculture Support Programme and Plantation	Community Block Plantation will be carried out in nearby villages and Schools to enhance the aesthetic as well as to mitigate pollution of the area and that will act as windshield.	5000 nos. saplings (2500 saplings each at Basawa and Khirod)	25	5000 nos. saplings (2500 saplings each at village Khemri Ki dhani and Mohanwadi)	
	Awareness and aid for organic farming in the nearby villages	2 No. (Village Khirod & Basawa)	10	01 No. (Village Turkani ki Johdi)	
Others	Support to social welfare scheme as suggested by District Administration	Village Basawa & Khirod	15	Village Basawa & Khirod	
Total			**873**		
First year will start from date of commencement of Project activity of Phase - I					

PHASE - II

Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement					
		1st Year		2nd Year		3rd Year	
		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Bu i La
Employment	Establishment of Skill Development Centre for providing short duration programs for unemployed youth in the field of domestic electrician, plumber, mobile repairing etc.	01 Centre (Village Khirod)	30	01 Centre (Village Mohanbari)	30		
	Various Sustainable Livelihood Programme for Women and Construction of Sewing, Tailoring & Computer Center	01 Centre (Village Mohanbari)	15			01 Nos (Villages Turkani Johdi)	1
Socio-Economic Development	**Infrastructure Development**						
	Repair / Restoring the Village Pathways/Road	02 No. (Basawa & Khirod)	50	01 Nos (Villages Turkani Johdi & Khemri Ki dhani)	30	01 No. (Village Mohanwadi)	2
	Installation of Street Light	150 nos. (Village Basawa)	10	75 nos. (Village Khirod)	7	75 nos. (Village Mohanbari)	
	Installation of Solar Light	25 nos. (Village Khirod)	5	25 nos. Village Basawa	5	25 nos. Village MohanBari)	
	Installation of High Mast Light	02 Nos (Villages Khirod)	30	02 Nos (Villages Basawa)	30		
	Maintenance of Drainage system in nearby villages	Village Basawa	20	Village Khirod	20	Village Turkani Ki Johdi	2
	Construction of community toilet in public places	5No. (Village Basawa)	15	5 No. (Village Turkani Johdi)	15	5 No. (Village Khirod)	1
	Construction of Multipropose Community halls	01 No. (Khirod)	50	01 No. (Basawa)	25	01 No. (Villages Turkani Johdi)	2
	Provide vehicles for garbage collection under Swachh Bharat Mission	01 No. (Village Khirod)	10	01 No. (Village Basawa)	10	01 No (Village Turkani Johdi)	1

PHASE - II

Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement					
		1st Year		2nd Year		3rd Year	
		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Bu i La
	Ground Water Conservation						
	Restoration of Water ponds / percolation tanks by desilting, clearing the water paths, strengthening the banks etc., and Development of wells and stepwell	01 No. (Village Basawa)	25	01 No. (Village Khirod)	25	1 No. (Village Turkani Johdi)	2
	Renovation and Maintenance of exiting water conservation structures, deepening / desilting of ponds etc.	01 No. (Village Basawa)	10	01 No. (Village Khirod)	10	1 No. (Village Turkani Johdi)	1
	Rainwater harvesting structures on Govt. School Building	01 No. (Khirod & Basawa)	10	01 Nos (Villages Turkani Johdi)	5	01 No (Village Mohanwadi)	
	Safe Drinking water						
	Installation of RO/UV Plants to provide safe drinking water at community places	02 No. (Village Basawa)	30	02 No. (Village Khirod)	30	01 No. (Village Mohanwadi)	2
	Construction of Tank for storage of water	1 No. (Village Khirod)	50			02 No. (Village Mohanwadi & Village Turkani ki Johdi)	5
	Maintenance/renovation of existing tube well, borewell & handpump	02 No. (Village Basawa & Khirod)	15	02 No. (Village Mohanwadi & Village Turkani ki Johdi)	15	-	
	Installation of Tubewells and Borewells in nearby villages	3 No. (Village Khirod)	30	3 No. (Village Basawa)	30	3 No. (Village Turkani Johdi)	3
	Education Related						
	Upgradations/Renovation of Classrooms & Toilets in Schools of nearby Villages	02 No. (Basawa & Khirod)	10	01 No. (Village Mohanwadi)	5	2 No. (Village Khirod)	1
	Providing 20 sets of	02 No.	10	01 Nos	10	01 No.	1

PHASE - II

Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement					
		1st Year		2nd Year		3rd Year	
		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Bu i La
	Table and chair in nearby Government Schools	(Basawa & Khirod)		(Village Turkani Johdi)		(Village Mohanwadi)	
	Providing sports kit and organizing sports meet in nearby villages	1 No. (Village Khirod)	10	1 No. (Village Basawa)	10	01 Nos (Village Turkani Johdi)	1
	Celebration of Social Events	Village Basawa & Khirod	10	Village Basawa & Khirod	10	Village Basawa & Khirod	1
	Provide computer set in Govt Schools village Basawa-Khirod & Turkani Johdi as well as computer training program will be organised to train students of nearby villages	10 No. (Village Basawa)	10	10 No. (Village Khirod)	10	10 No. (Village Turkani Johdi)	1
	Health Related						
Agriculture Support Programme and Plantation	Community Block Plantation will be carried out in nearby villages and Schools to enhance the asthetic as well as to mitigate pollution of the area and that will act as windshield.	5000 nos. saplings (2500 saplings each at Basawa and Khirod)	25	5000 nos. saplings (2500 saplings each at village Khemri Ki dhani and Mohanwadi)	20	5000 nos. saplings (2500 saplings each at village Turkani Ki Johdi and Jhajar)	2
	Company will distribute High-yield variety seed as well as company will provide agricultural equipment to farmers of nearby villages	02 No. (Basawa & Khirod)	15	02 No. (Turkani ki johdi & Mohanwadi)	15	01 No. (Village Khemri Ki Dhani)	
	Company will educate and provide hand on training to nearby local community on high tech farming techniques for upliftment of local farmers.	02 No. (Basawa & Khirod)	9	01 No. (Turkani ki johdi & Mohanwadi)	9	01 No. (Village Khemri Ki Dhani)	
Others	Support to social welfare scheme as suggested by District Administration	Village Basawa & Khirod	10	Village Basawa & Khirod	10	Village Basawa & Khirod	1
Total			514		386		3
First year will start from date of commencement of Project activity of Phase - II							

PHASE - II

Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement								
		1st Year			2nd Year			3rd Year		
		Location / Area	Budget in Lakhs		Location / Area		Budget in Lakhs		Location / Area	Bu i La

-

-
-
-
-
-
-

Model Village Development Plan

S. No.	Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measur			
			1st Year		2nd Year	Bu
			Location / Area	Budget in Lakhs	Location / Area	
1	***Skill Development***	Job oriented skills development training to unemployed youth	50 trainees/ Covering	5	50 trainees/ Covering	
			5 villages		5 villages	
		Capacity building of farmers to reduce input cost and enhance income/ productivity and to improve agri-crop yield and social forestry	60 farmers/ covering	7	60 farmers/ covering	
			5		5	
			villages		villages	
		Capacity Building and livelihood support to women	50 women/ 5 villages	5	50 women/ 5 villages	
		Creating Model Anganwadi	2/ Basawa & Khirod	5	1/ Mohanwadi	

S. No.	Concerns raised during the Public Hearing	Physical activity to be done	1st Year		2nd Year	Unit of Measur Bu
			Location / Area	Budget in Lakhs	Location / Area	
		Installation of dustbins at schools, parks, hospitals & other places of worship & community centers	20 / Basawa & Mohanwadi	2	20 / Khirod	
		Construction/ Renovation of sheds at Gaushala	1/ Basawa	3	1/ Khirod	
2	***Ground Water Conservation***	Ponds/ Check Dams	1/ Basawa	7	1/ Khirod	
3	***Safe Drinking Water***	Installation of Water huts with Water Coolers	1/ Khirod	5	1/ Basawa	
		Construction of water tanks, drinking water structures for animals to provide safe drinking water at community places	1/ Basawa	1	1/ Mohanwadi	
4	***Education***	Strengthening of school infrastructure to create model school (providing furniture's and quality study materials)	1/ Basawa	5	1/ Khirod	
		Construction of Library and Reading Rooms after consultation with Gram panchayat	01/Basawa	5	01 / Khirod	
		Providing Sports Kit to schools (Cricket kit / Table Tennis / basketball / badminton kit etc)	01/ Basawa	3	01/ Khirod	

S. No.	Concerns raised during the Public Hearing	Physical activity to be done	1st Year		2nd Year	Unit of Measur Bu
			Location / Area	Budget in Lakhs	Location / Area	
5	***Health***	Renovation/ Construction (in consultation with local authority) of dispensary	01/ Basawa	10	01/ Khemri Ki dhani	
		Centre and providing first aid kits				
		in schools & community centers				
		Installation of various public	5/		5/	
		boards & posters to create	Covering		Covering	
		awareness regarding	5 villages	1	5 villages	
		communicable diseases & public				
		hygiene				
		Preventive health programme for women & Children	5/		5/	
			Covering	2	Covering	
			5 villages		5 villages	
6	***Afforestation***	Distribution of saplings of native tree species, economical beneficial, fruit bearing trees and trees having high medicinal value in nearby villages	2000	7	2000	
Total				**73**		

NOTE*: Nature of the activities & village can be interchanged from village to village may vary based on the outcome of with local Gram Panchayat within the overall budget proposed here for Socio- Economic Development Plan.*

1. The capital cost of the proposed project is Rs. 2500 Crores (Phase - I: 1500 Crores and Phase - II: 1000 Crores) and the capital cost for Environmental Protection Measures is proposed as Rs. 200 Crores (Phase - I: 120 Crores and Phase - II: 80 Crores). The annual recurring cost towards the environmental protection measures is proposed as Rs. 30 Crores/ annum (Phase - I: 18 Crores and Phase - II: 12 Crores). The employment generation from the

project is 3300 persons. The details of cost for environmental protection measures are as follows:

S. No.	Particulars	Phase - I (in Crores)		Phase - II (in Crores)		Total (in Crores)	
		Capital	Recurring	Capital	Recurring	Capital	Recurring
1	Air Pollution Control Measures	114.5	11.0	78.5	10.0	193	21
2	Water Pollution Control and Rain Water Harvesting Measures	2.0	2.0	-	0.4	2	2.4
3	Noise Pollution Control	1.0	0.50	1	0.9	2	1.4
4	Environment Monitoring and Management	0.50	2.0	0.5	0.5	1	2.5
5	Green Belt Development & Drip irrigation system	2.0	2.50	-	0.2	2	2.7
Total		120.0	18.0	80.00	12.0	200	30

1. Proposed greenbelt will be developed in 54.34 ha which is about 33% of the total project area. A 30 m wide greenbelt, consisting of at-least 3 tiers around plant boundary will be developed as greenbelt and green cover as per CPCB/MoEFCC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Approximately Total no. of 1,35,850 trees is proposed to be planted in 54.34 ha in 05 years.

1. It is reported that there is no violation of EIA Notification 1994 or EIA Notification 2006 or court case/show cause/direction against project.

Written representations:

-

1. During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 30.05.2023 through email dated 31.05.2023 submitted the revised action plan submitted by the proponent to address the issues raised during the public hearing alogn with village adoption plan as updated at para 34.4.12 above.

3.1.3. Deliberations by the EAC in previous meetings

N/A

3.1.4. Deliberations by the EAC in current meetings

The Committee noted the following:

1. The instant proposal is for setting up of Integrated Cement Project - Clinker (2 x 3.5 Million TPA), Cement (2 x 3.5 Million TPA), CPP (2 x 30 MW), WHRS (2 x 18 MW) and D.G. Set (2 x 6 MW).
2. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the

Project Proponent.

3. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
4. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
5. The total land area required for the proposed project is 164.69 ha {Project area - 159.74 (Plant & Colony/Guest House) + 4.95 ha belt conveyor}; out of which 0.05 ha is Government land and 164.64 ha is Private land. Out of total area i.e., 164.69 ha; 92.82 ha land under possession of company and for 53.0 ha land consent has been taken from landowners. Land acquisition of remaining land i.e., 18.87 ha is under process. The nature of land is Private Agricultural land and Government waste land and same will be converted into industrial use after introduction of the project.
6. The PP reported that 81 project affected families are present within the project site out of which 78 have Land and Homestead and 03 have only Land in the project site. Thererfore, R & R is involved in the project. Rs. 14.77 Crores budget has been allocated for R & R of project affected families.
7. The EAC noted that there is Turkani Johadi adjacent to the project site in SW. Also Baswa (1.5 km, E), Khirod (1.9 km, S), Kemri Ki Dhani (2.1 km, WSW), Milo Ka Bas (2.7 km, NW and Dhani Kanakawali (1 km, NE) along with 50 villages are present in 10 km radius of the study area within the study area. The EAC is of the opinion that PP shall strictly implement the environmental safeguard measures proposed to minimise the impact on the habitation of the locals.
8. The total water requirement is 1800 KLD (Phase - I: 1150 KLD and Phase - II: 650 KLD); which will be sourced from Ground Water. NOC for ground water withdrawal of 2000 KLD was obtained from CGWA vide letter No. CGWA/NOC/IND/REN/1/2023/7717 dated 1st May, 2023 which is valid up to 21st May, 2025. The EAC also opined that permission for drawl of additional water requirement shall be obtained for Competent Authority prior to commencement of operations.
9. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and found it satisfactory.
10. 24 Schedule - I species was found within 10 Km radius. Wildlife Conservation Plan for Schedule - I species has been prepared and submitted to DCF, Jhunjhunu and PCCF, Jaipur on 20th Jan., 2023 for authentication. A Budget of Rs. 25 Crore is allotted for the implementation of Wildlife Conservation Plan.
11. The EAC noted that the Proposed greenbelt will be developed in 54.34 ha which is about 33% of the total project area. Approximately Total no. of 1,35,850 trees is proposed to be planted in 54.34 ha in 05 years. The Committee deliberated on the action plan and budget allocation for green belt development and is of the opinion that greenbelt shall be completed within 2 years, maximum plantation being undertaken in the 1st year itself.
12. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
13. The Committee also deliberated on the public hearing issues along with revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
14. The EAC also deliberated on the submitted written representation of project proponent and found it satisfactory.
15. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
16. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.
17. EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified

General conditions.

In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for grant of Environment Clearance **subject to uploading the written submission on portal** under the provisions of EIA Notification, 2006 subject to the stipulation of following specific conditions and general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 based on project specific requirements:

3.1.5. Recommendation of EAC

Recommended (Subject to submission of requisite information/ documents)

3.1.6. Details of Environment Conditions

3.1.6.1. Specific

Specific Conditions:	
1.	R&R shall be completed as per the applicable norms and laws
2.	As committed PP shall adopt village and implement the action plan to develop them into model villages in next three years
3.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as applicable to this project
4.	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented
5.	The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard
6.	The recommendations of the approved Site-Specific 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 to the concerned Regional Office of the MoEF&CC
7.	The total proposed project land shall be acquired and converted for industrial use prior to commencement of the project
8.	The EAC noted that there is Turkani Johadi adjacent to the project site in SW. Also Baswa (1.5 km, E), Khirod (1.9 km, S), Kemri Ki Dhani (2.1 km, WSW), Milo Ka Bas (2.7 km, NW and Dhani Kanakawali (1 km, NE) along with 50 villages are present in 10 km radius of the study area within the study area.. Project Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. PP needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme
9.	The total water requirement of 1800 KLD (Phase - I: 1150 KLD and Phase - II: 650 KLD);, as proposed to be met from ground water is permitted only after obtaining necessary permission from the Competent Authority. Efforts shall further be made to use maximum water from the rain water harvesting sources
10.	Three tier Green Belt shall be developed in at least 33% of the project area within 2 years, maximum plantation being undertaken in the 1st year itself with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored

	on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards Baswa, Khirod, Kemri Ki Dhani, Milo Ka Bas and Dhani Kanakawali Village. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC
11.	All the commitments made towards socio-economic development of the nearby villages including the commitments made during the previous EC shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 amounting to Rs. 20.50 Crores (Phase-I) and 12.50 Crores (Phase-II) shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC

3.1.6.2. Standard

3(b)	**Cement plants**
Statutory compliance	
1.	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.
2.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
Air Quality Monitoring and Preservation	
1.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 06 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories
Water Quality Monitoring and Preservation	
1.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 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 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
3.	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.
4.	Water meters shall be provided at the inlet to all unit processes in the plants
5.	The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water
6.	The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant.

	Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body
7.	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report
8.	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report
9.	Air Cooled condensers shall be used in the captive power plant
Noise Monitoring and Prevention	
1.	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer 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.
Energy Conservation Measures	
1.	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
2.	Provide LED lights in their offices and residential areas
3.	The project proponent make efforts to achieve power consumption less than 65 units/tonne for Portland Pozzolona Cement (PPC) and 85 units/tonne for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker
4.	Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards
Waste Management	
1.	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil
Green Belt	
1.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
2.	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.
3.	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
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
Environment Management	
1.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
2.	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.
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 to the head of the organization.
4.	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.
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.	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.
3.	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.
4.	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.
5.	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
6.	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.
7.	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.
8.	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.
9.	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.
10.	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
11.	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
12.	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).
13.	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.
14.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
15.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
16.	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.
17.	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.
Air Quality Monitoring and Preservation	
1.	Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions
1.	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
1.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags
1.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly
1.	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin
1.	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces
1.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars

1.	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere
1.	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals
1.	Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant
1.	The particulate matter emissions from the process stacks shall be less than 30 mg/Nm^3 and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed
1.	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
1.	Provide Low NOx burners as primary measures and SCR /NSCR technologies as secondary measure to control NOx emissions
1.	DeSOx system shall be provided dry type. NOx level shall be maintained below 600 mg/Nm^3 by using best available technology
1.	Petcoke dosing shall be controlled automatically to control SO_2 emission from chimney within the prescribed limits
1.	PP shall identify the Source of fluoride emissions and action plan to mitigate the same shall be implemented
1.	During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented
1.	Dioxin and Furan monitoring shall be carried out once in six months at cement kiln stack
1.	The emission norms applicable for the cement plant shall be adhered to
1.	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB
1.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles
1.	The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m^3, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948
1.	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB
1.	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM_{10} and $PM_{2.5}$ in reference to PM emission, and SO_2 and NOx in reference to SO_2 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
1.	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

Energy Conservation Measures	
1.	Waste heat recovery system shall be provided for kiln and cooler
1.	Maximize utilization of alternate fuels and Co-processing to achieve best practice norms
Noise Monitoring and Prevention	
1.	PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948
Public Hearing and Human Health Issues	
1.	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
1.	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
1.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained
Waste Management	
1.	Solid waste utilization a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making. b. PP shall recycle/reuse solid waste generated in the plant as far as possible. c. Used refractories shall be recycled as far as possible.
1.	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents
1.	A proper action plan must be implemented to dispose of the electronic waste generated in the industry
1.	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
1.	Kitchen waste shall be composted or converted to biogas for further use

3.2. Agenda Item No 2:

3.2.1. Details of the proposal

Bhushan Power & Steel Limited - Corrigendum in EC vide Proposal No. IA/OR/IND/297156/2023, File No IA-J-11011/40/2009-IA-II(I) by **BHUSHAN POWER & STEEL LIMITED** located at **SAMBALPUR,ODISHA**

Proposal For		Amendment in EC	
Proposal No	**File No**	**Submission Date**	**Activity (Schedule Item)**
IA/OR/IND1/429331/2023	J-11011/40/2009-IA-II(IND-I)	18/05/2023	Metallurgical Industries (ferrous and non ferrous) (3(a))

3.2.2. Project Salient Features

-

3.2.3. Deliberations by the EAC in previous meetings

N/A

3.2.4. Deliberations by the EAC in current meetings

The Committee noted that the PP/Consultant sent the requisite documents pertaining to the instant proposal in the late evening of 30.05.2023 i.e. just a day before the meeting day, although it was clearly mentioned in the agenda of the meeting uploaded on PARIVESH portal that *"It may be ensured that the Members receive the aforesaid requisite documents in soft copy/e-mail pertaining to the projects latest by 25.05.2023 positively. Failing which the Committee will not consider the project."* In view of the above circumstances, the EAC members also could not go through the documents and after deliberation recommended **to defer the proposal**. The EAC also warned PP/Consultant to be careful in future and shall comply with the directions mentioned in the agenda properly, as the whole process is online on Portal. The EAC further advised that the proposal shall be considered once the PP/Consultant are fully prepared and only after receiving the formal request of the project proponent, the proposal shall be placed before the EAC.

3.2.5. Recommendation of EAC

Deferred for ADS

3.3. Agenda Item No 3:

3.3.1. Details of the proposal

Expansion of Manufacturing of Ferro Alloys from 48,000 TPA to 64,000 TPA by **HIRA POWER & STEELS LIMITED** located at **RAIPUR,CHHATTISGARH**			
Proposal For		Fresh EC	
Proposal No	**File No**	**Submission Date**	**Activity (Schedule Item)**
IA/CG/IND1/425728/2023	IA-J-11011/836/2008-IA-II(IND-I)	19/05/2023	Metallurgical Industries (ferrous and non ferrous) (3(a))

3.3.2. Project Salient Features

1. Hira Power and Steel Limited has made an online application vide proposal no. IA/CG/IND1/425728/2023 dated

19.05.2023 along with copy of EIA report and Forms (Part A, B and C) and certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(a), Metallurgical industries (ferrous & non-ferrous) and 1 (d) Thermal Power Plants under Category "A" of the schedule of the EIA Notification, 2006 and attracts general condition due to Urla industrial area being at 7 Km (NE) from Siltara Industrial area and 6.9 Km (SSE) from Raipur which are CPA and being appraised at Central Level.

2. Name of the EIA consultant: M/s. Pollution and Ecology Control Services [List of ACOs with their Certificate / Extension Letter no. QCI/NABET/ENV/ACO/23/2732; valid upto 06.09.2023, as on June 2, 2023].

Details submitted by Project proponent

3. The details of the ToR are furnished as below:

Date of Application	Consideration	Details	Date of Accord	ToR Validity
21.10.2021	Standard ToR was issued by MoEF&CC	Terms of Reference	27.10.2021	26.10.2025

4. The project of Hira Power and Steel Limited located in Khasra No. 156, 500, 508, 509, 510, 511/1, 511/2, 512/1, 512/2,513/1- 513/5 and others Urla Industrial Area, Raipur Tehsil, Raipur District, Chhattisgarh State is proposed to increase the production of Ferro Alloy by improvement in efficiency and using better quality of raw material from 48000 TPA to 64000 TPA without change in plant and machinery.

5. The proposal was considered during 34th meeting of the EAC for Industry-I sector held on 31st May, 2023. The deliberations and recommendations of EAC are as follows:

3.3.3. Deliberations by the EAC in previous meetings

N/A

3.3.4. Deliberations by the EAC in current meetings

The Committee noted the following:

1. The EAC deliberated on the certified compliance report of IRO dated 09.01.2023 wherein IRO has made observation regarding installation of Continuous Ambient Air Quality Monitoring Stations (CAAQMS). Also, PP had submitted an undertaking to IRO for installation of 01 Nos. of CAAQMS within 3 months. However PP reported that the same has not been accomplished yet. The EAC noted that as per the undertaking the time period of 3 months has lapsed. In this regard, the EAC after deliberation on the whole proposal in-principle agreed to recommend the proposal, however, advised the PP/Consultant to reappear before the EAC for final recommendation only after installations of CAAQMS as directed by the IRO along with the closure report from IRO in this regard.
2. In view of above, the PP requested the Committee to allow to reappear with the revised information/ clarification to the points deliberated during appraisal.

In view of the foregoing and after detailed deliberations, the committee recommended to **defer the proposal** due to certain deficiencies in the proposal and sought requisite information on the points referred at para no. 34.3.6 above. The proposal shall be considered after submission of requisite information and updating the Report on Parivesh Portal.

3.3.5. Recommendation of EAC

Deferred for ADS

3.4. Agenda Item No 4:

3.4.1. Details of the proposal

Establishment of 2 X 100 TPD Sponge Iron (DRI) Plant and 2 MW Captive Power Generation Plant by M/s. PVSR Steel and Power Pvt. Ltd. by **MS. PVSR STEEL AND POWER PVT LTD** located at **BALLARI,KARNATAKA**			
Proposal For		Fresh EC	
Proposal No	**File No**	**Submission Date**	**Activity (Schedule Item)**
IA/KA/IND1/425306/2023	IA-J-11011/42/2020-IA-II(IND-I)	04/05/2023	Metallurgical Industries (ferrous and non ferrous) (3(a))

3.4.2. Project Salient Features

1. M/s. PVSR Steel & Power Pvt. Ltd. has made an online application vide proposal no. IA/KA/IND1/420560/2023 Dated 04.05.2023 along with copy of EIA/EMP report, Forms (Part A, B and C) seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(a), Metallurgical industries (ferrous & non-ferrous) and 1 (d) Thermal Power Plants under Category "A" of the schedule of the EIA Notification, 2006 and attracts general condition due to inter-state boundary (Karnataka - Andhra Pradesh Boundary) at 1.55 Km and being appraised at Central Level.

2. Name of the EIA consultant: M/s. Environmental Health and Safety Consultants Private Limited [List of ACOs with their Certificate / Extension Letter No: NABET/EIA/2124/RA 0241; valid upto 22.08.2024, as on June 2, 2023].

Details submitted by Project proponent

3. The details of the ToR are furnished as below:

Date of Application	Consideration	Details	Date of Accord	ToR Validity
22.01.2020	16th Meeting of EAC held on 24.02.2020	Terms of Reference	05.05.2020	04.05.2024
17/10/2020	24th Meeting of EAC held on 27.10.2020	Amendment to ToR	15.12.2020	

4. The project of M/s PVSR Steel and Power Pvt. Ltd located in Halakundi Village, Ballari Tehsil, Ballari District, Karnataka State is for refurbish & upgradation of existing 1x50 TPD kiln to 1x100 TPD preheater kiln and establishment of new 1 x 100 TPD Kiln for manufacturing of 200 TPD Sponge Iron along with 2 MW Captive Power Plant for generation of power by utilizing waste heat for production of 0.066 Million Tons Per Annum (MTPA) / 66000 TPA.

5. Environmental Site Settings:

S. No	Particulars	Details	Remarks
i.	Total Land	7.35 ha (18.15 acres)	Land use : Out of 18.15 acres 12.1 acres is already converted to industrial land use and remaining land of 6.05 acres is under process of conversion to industrial purpose
ii.	Land acquisition details as per MoEF & CC O.M dated 7/10/2014	There is no land acquisition. The entire land is under the possession of proponent.	
iii.	Existence if habitation &	**Project site:** Nil	-

S. No	Particulars	Details	Remarks
	involvement of R & R, if any	**Study Area:** Halkundi Village – 1.35 km, NE	
iv.	Latitude and Longitude of the project site	**Latitude** **Longitude** 15° 4'19.75"N 76°52'15.65"E 15° 4'30.50"N 76°52'28.11"E 15° 4'31.83"N 76°52'32.01"E 15° 4'25.43"N 76°52'28.88"E 15° 4'17.69"N 76°52'19.94"E	-
v.	Elevation of the project site	495 m AMSL	-
vi.	Involvement of Forest land if any	No forest land involved in the project land	-
vii.	Water body exists within the project site as well as study area	**Project Site**-Nil **Study Area:** **Waterbody** **Distance** **Direction** Halkundi Lake 1.43 Km NE Tungabhadra High Level Canal 4.30 Km NE Allipura Reservoir 8.60 Km NW	-

S. No	Particulars	Details	Remarks
viii.	Existence of ESZ/ESA/National Park/Wild Life Sanctuary/Biosphere Reserve/Tiger Reserve/Elephant Reserve,etc. if any within the study area.	**Project Area:** Nil **Study Area:** • Ballari RF – 0.93 Km, SW • Mincheri RF – 2.80 Km, SE • Metriki RF – 9.11 Km, SW • Hirehalu RF – 10.62 Km, SW	-

6. M/s. PVSR Steel & Power Pvt. Ltd. is an existing Shut-down sponge iron industry having 1x50 TPD Kiln for manufacturing of sponge iron, earlier the plant was in the name of M/s. Banashankari Steels & Alloys Pvt. Ltd. & the earlier management was obtained CFE for existing 50 TPD sponge iron plant on 22.08.2007 vide file No. KSPCB/EO (BLY)/DEO/AEO-1/CFE/MR/2007-08/1181 and shut down due to financial glitches during 2012. Currently it is non-operating industry. The new management of the M/s. PVSR Steel & Power Pvt. Ltd. purchased the entire plant through SBI Bank and now proposed for Refurbish & upgradation of existing 1x50 TPD kiln to 1x100 TPD preheater kiln and establishment of new 1 x 100 TPD kiln for manufacturing of 200 TPD Sponge Iron along with 2 MW Captive Power Plant. Further the industry had obtained Certified Inspection Report for the existing 50 TPD Sponge Iron Industry.

7. The unit configuration and capacity of proposed project is given as below:

Sl. No.	Name of Unit	Capacity of each unit	Production capacity
1	Sponge Iron Plant	Refurbish & upgradation of existing 1x50 TPD kiln to 1x100 TPD preheater kiln & establishment of new 1 x 100 TPD kiln.	200 TPD
2	Captive Power Plant	2 MW	2 MW
3	Boiler (WHRB)	2 x 5 TPH	2 x 5 TPH

8. The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

S. No.	Raw Material	Quantity required per annum	Source	Distance fromsite (Kms)	Mode of Transportation
1	Iron Ore	1,38,600 TPA	Through E – Action from local suppliers i.e. M/s. Thakur Industries, Hospet	150 Km	By road through covered trucks
2	Coal	66,000 TPA	Imported from Mangalore Port through suppliers i.e., M/s. Shree Ram Minerals, Hospet	500 Km	By road through covered trucks
3	Lime Stone	3300 TPA	Adjacent districts	180 Km	By road through covered trucks

			through suppliers		

9. The water requirement for the proposedproject is
etimatedas 160 m^3 /day, out of which 5 m^3/day of fresh water requirement will be obtainedfrom the Bore well for domestic operations and the remaining155 m^3 /day will be met from Ballari City Municipal Corporation for industrial operations and permission for the same has been obtained from Ballari City Municipal Corporation vide letter No. BMP/TS/TNH/112/21-22(2022-23) dated 18.01.2023. Online application has been submitted on 08.02.2023 towards obtaining permission for drawl of groundwater of 5 KLD from Karnataka Ground Water Authority which is under process.

10. The power requirement for the proposed project is estimated as 1 MW, which will be met from the internal Captive Power Plant of 2 MW.

11. Baseline Environmental Studies:

Period	Initially, the study period for the project was from March-April-May, 2020 and accordingly, the baseline environmental monitoring was started from 01.03.2020. However, due to COVID-19 lock down, the data collection was discontinued on 23.03.2020. Further, the data collection resumed from October, November, 2020 and up to 5th December, 2020.
AAQ parameters at 8 Locations (min and max) for both in study area and project site	• PM_{10} = 57.81 to 106.03 µg/m^3 • $PM_{2.5}$ = 15.45 to 50.44 µg/m^3 • SO_2 = 7.70 to 15.45 µg/m^3 • Nox = 15.14 to 25.87 µg/m^3 • CO = 0.52 to 1.14 mg/m^3
Incremental GLC level	**March 2020** PM_{10} = 0.95 µg/m^3 (at 0.10 Km in NE Direction) SO_2 = 0.1 µg/m^3 (at 0.10 Km in NE Direction) Nox = 0.06 µg/m^3 (at 0.10 Km in NE Direction) **October – November 2020** PM_{10} = 1.61 µg/m^3 (0.5 Km in NE Direction) SO_2 = 0.17 µg/m^3 (at 0.5 Km in NE Direction) NOx = 0.06 µg/m^3 (at 0.5 Km in NE Direction)
Ground water quality at 8 locations	pH: 6.91 (GW4) to 7.88 (GW7), Total Hardness: 280 (GW7) to 880 mg/l (GW4), Chlorides: 111.17 (GW7) to 431.78 mg/l (GW6), Fluoride : 0.28 (GW4) to 1.30 mg/L (GW9). Heavy metals: Zn: 0.012 (GW2 & GW4) to 1.181 mg/L (GW9), Fe: 0.053 (GW6) to 0.656 mg/L (GW7).
Surface water quality at 5 locations	• pH: 7.85 (SW-2) to 8.48 (SW-4) • DO: 4.7 (SW7) to 5 mg/l (SW2) • BOD: 4.5 (SW1) to 14 mg/l (SW6) • COD: 22.4 (SW1) to 44.8 mg/l (SW5)
Noise levels Leq (Day and Night)	43.9 to 67.34 dB(A) for day time 35.42 to 55.68 dB(A) for Night time
Traffic assessment study findings	• Traffic studyhas been conducted at study area, the project site is accessed through SH 19 (Ballari - Hiriyuru Road)/ NH 150A is passing at a distance of 0.60 Km in East direction & 7.0 Km away from SH - 132 (Ballari Hubli Road) in Northwest direction followed by through Halakundi – Vittalapuram Road (2 Lane road) which is adjacent to the project site (0 Km).

- Transportation of raw material, fuel & finished productwill be done100 % by road.
- Existing PCU is 2542 PCU/hr on Halkundi - Vitlapuram Road (2 Lane road) and existing level of service (LOS) is: A.

Road
V

C

Existing V/C

Los

Haraginadoni Road (2- Lane undivided)

2542

15000

0.17

A

- PCU load after proposed project will be 170 (Existing + Additional) PCU/hr and levelof service (LOS)will be: A.

Road
Changed V/C and LoS after adding the generated traffic

LoS

V

V/C

LoS

Haraginadoni Road (2-lane undivided)

A

2712

0.18

A

** **Note:** Capacity as per IRC 64-1990 Guide line recommended design service is 15,000 PCU/day for 2 lane roads.*

Conclusion: The level of service will be **A** including additional traffic due to proposed project.

V/C
LoS

Performance

	0.0-0.2 A Excellent 0.2-0.4 B Very Good 0.4-0.6 C Good 0.6-0.8 D Fair/Average 0.8-1.0 E Poor 1.0 & Above F Very Poor
Flora and fauna	In buffer zone Indian Peafowl and Shikra are Schedule-I Species recorded. Conservation Plan has been prepared with an allotted budget of Rs. 5 Lakhs & submitted to Karnataka Forest Dept., Ballari which was approved by DCF, Ballari on 09.01.2023 & recommended for approval to CCF, Ballari.

12. The details of solid and hazardous waste generation along with its mode of treatment/disposal is furnished as below:

S. No.	Type of Waste	Source	Quantity Generated (TPA)		Mode of Treatment
			Existing	Proposed	
By Products					
1	Iron Ore Fines	Manufacturing Process	-	22110	Sold to Beneficiation plant for manufacturing of pellets & MOU made with M/s. Thakur Industries, Hospete for giving Iron ore fines.
2	Char		-	11880	Sold to Sponge Iron Units & MOU made with M/s. Shree Ram Minerals, Hospete for giving Dolochar

S. No.	Type of Waste	Source	Quantity Generated (TPA) Existing	Quantity Generated (TPA) Proposed	Mode of Treatment
Solid Waste					
1	Domestic Solid Waste	From Workers	-	4.95	Segregated into organic and inorganic solid waste and handed over to local municipal body.
2	Ash/ESP Dust/ Bag Filter Dust	Manufacturing Process	-	6600	Sold to Brick Manufacturing Units & MOU made with M/s. Shree Ram Minerals, Hospete for giving Ash/ ESP Dust/ Bag Filter Dust.
Hazardous & other Wastes					
1	Used Oil	DG sets	-	0.0375 (KL/A)	Handed over to Century Eco Solutions India Private Limited, Tumkur for further process.
2	Oil Soaked Cotton Waste		-	0.002	
3	E-waste	From industry	-	0.01	Will be given to E- Parisara Pvt. Ltd., Bangalore
4	Plastic waste	From industry	-	0.01	Will be given to Green Recycloplast Solutions Private Limited, Tumkur
5	Batteries Waste	From industry	-	0.02	Will be given to E-Pragathi Recycling Private Limited, Tumkur
6	Biomedical waste	From labours	-	0.010	Will be given to M/s. Medicare Environmental Management Pvt. Ltd., Bangalore Rural

13. Public Consultation:

Details of advertisement given	Local newspaper (Kannada) “Prajavani” National newspaper (English) “Indian Express” Date of paper advertisement : 24.07.2021
Date of public consultation	24.08.2021
Venue	Project site Premises of M/s. PVSR Steel & Power Pvt. Ltd., Halakundi Village, Ballari Taluk & District, Karnataka
Presiding Officer	Shri. Pavan Kumar Malapati I.A.S Deputy Commissioner and District Magistrate, Ballari District, Karnataka
Major issues raised	• Pollution levels due to surrounding cluster of Industries are Causing air pollution, health problems, loss of crop & not providing dust compensation to farmers. • Provision for Drinking Water Supply to villages • Employment opportunities for local people • Plantation in the region • Infrastructure Development in the region

Action plan as per MoEF&CC O.M. dated 30/09/2020:

Action Plan for implementation of activities as per MoEF & CC OM Dt: 30.09.2020

S. No	Physical activity and action plan Name of the Activity		Physical Targets	Year of implementation (Budget inLakhs) 1st Year	2nd Year	3rd Year	Total Expenditure (in Lakhs)
1	Plantation	Plantation of	6000	2000	2000	2000	8.50

Action Plan for implementation of activities as per MoEF & CC OM Dt: 30.09.2020

S. No	Physical activity and action plan			Year of implementation (Budget inLakhs)			Total Expenditure
	Name of the Activity		Physical Targets	1st Year	2nd Year	3rd Year	(in Lakhs)
		native species & its maintenance at along the Halkundi-Vitlapurm road for a length of 15 Km	Nos	Saplings 2.83	Saplings 2.83	Saplings 2.84	
2	Education	Renovation & construction of classrooms in Government School Buildings at Halkundi Village & Mincheri Village	2 Nos	1 Unit i.e., Halkundi 5.0		1 Unit i.e., Mincheri Village 5.0	10.00
		Construction toilets in Govt. schools i.e, Halkundi Village & Mincheri Village	2 Nos	1 Unit i.e., Halkundi 1.0	1 Unit i.e., Mincheri Village 1.0		2.00
		Providing teaching aids/books, Computers, library, Sports materials to schools	2 Nos	1 Unit i.e., Halkundi 2.00	-	1 Unit i.e., Mincheri Village 2.00	4.00
3	Infrastructure	Construction of 8 Nos of Rainwater Recharge structures around the bore wells village which are used for water supply to the villages to recharge groundwater table i.e Obulapuram, Neemakallu, Mincheri and Halkundi (Obulapural and Neemakallu	8 Nos at 4 Villages	4 Units i.e., Halkundi & Mincheri 1.50	4 Units i.e., Obulapuram & Neemakallu 1.50	-	3.00

Action Plan for implementation of activities as per MoEF & CC OM Dt: 30.09.2020

S. No	Physical activity and action plan		Physical Targets	Year of implementation (Budget inLakhs)			Total Expenditure
	Name of the Activity			1st Year	2nd Year	3rd Year	(in Lakhs)
		Villages belongs to Andhra Pradesh State)					
4	Construction of artificial water pond (Mincheri RF)	Construction of artificial water pond in Mincheri Reserved forest & supply of water through tankers during summer season (Feb-May)	1 No	1 Unit i.e., Mincheri RF 2.0	-		2.00
5	Support for Agriculture	Construction of Farm Ponds in nearby villages i.e., Halkundi Village, Mincheri Village, Honnenahalli, Belagal & Honnenahalli Thanda	5 No's	2 Units i.e., Halkundi Village & Mincheri Village 2.4	2 Units i.e., , Belagal & Honnenahalli Thanda 2.4	1 Unit i.e., Honnenahalli Thanda 1.2	6.00
6	Health	Renovation & distribution of need based medicines, equipment's & furniture to Primary Health Centre at Halkundi Village	1 No	1 Unit i.e., Halkundi Village 3.50	-		3.50
		Conducting preventive health programmes on Women and children in the nearby villages i.e, Halkundi & Mincheri Village	2 No's	1 Unit i.e., Halkundi Village 0.50	-	1 Unit i.e., Mincheri 0.50	1.00
Total cost in Lakhs				**20.73**	**7.73**	**11.54**	**40.00**
Action Plan & Physical Target for issues raised in Public Hearing Held on 24.08.2021							
1	Pollution levels in the nearby	M/s. PVSR Steel & Power Pvt. Ltd. has to undertake that, all	500 No's @ 5 Villages	2 Units i.e., 200 No's	1 Unit i.e., Honnenahalli for 100 No's	2 Units i.e., 200 No's at Honnenahalli	20.00

Action Plan for implementation of activities as per MoEF & CC OM Dt: 30.09.2020

S. No	Physical activity and action plan			Year of implementation (Budget inLakhs)			Total Expenditure
	Name of the Activity		Physical Targets	1st Year	2nd Year	3rd Year	(in Lakhs)
	Villages by surrounding industrial cluster is causing Health problems	the necessary APCEs will be installed to avoid dust pollution causing health impacts. However Medical Camps & Health check-ups will be carried out in the surrounding villages i.e., Halkundi Village, Mincheri Village, Honnenahalli, Honnenahalli Thanda & Belagallu		at Halkundi Village & Mincheri Village		Thanda & Belagallu	
				8.0	4.0	8.0	
		Distribution of Fund to Sponge Iron Association Ballari for construction of Hospital near Honnenahalli Thanda	1 No	-	1 Unit 4.00	-	4.00
		Distribution of wheelchair, walking aid, hearing and vision aids, artificial limbs and 3-wheeler scooter/Scooty to Physically Challenged and handicap persons in nearby villages i.e Halkundi Village, Mincheri Village, Honnenahalli, Honnenahalli Thanda & Belagallu	15 No's	7 No's 2.50	8 No's 2.50	-	5.00
2	Provision for Drinking Water Supply	PVSR Steels has proposed to make provision of drinking water facilities in Halkundi Village, Mincheri Village, Honnenahalli & Honnenahalli Thanda	4 No's	1 Unit at Halkundi Village	1 Unit at Mincheri	2 Units at Honnenahalli & Honnenahalli Thanda	20.00
				5.00	5.00	10.00	
3	Employment	Provision of 100 No of employment opportunities to local villagers i.e., Halkundi Village, Mincheri Village,	300 No's	150 No's at Halkundi Village, Mincheri Village	150 No's at Honnenahalli Thanda, Honnenahalli & Belagallu	-	3.00

Action Plan for implementation of activities as per MoEF & CC OM Dt: 30.09.2020

S. No	Physical activity and action plan			Year of implementation (Budget inLakhs)			Total Expenditure
	Name of the Activity		Physical Targets	1st Year	2nd Year	3rd Year	(in Lakhs)
		Honnenahalli, Honnenahalli Thanda & Belagallu and providing training on innovative courses to Youth in local villages		1.50	1.50	10 No's	
		Tailoring training programmes to women's & distribution of Tailoring machines 30 Numbers in nearby villages in the study area at Mincheri, Sanjeevarayanakote, Burnayakanahalli, Chirakunta, Halkundi Village, Mincheri, Belagal, Belagal Thanda & Ballari Rural area	30 No's	10 No's 1.00	10 No's 1.00	1.00	3.00
5	Infrastructure Development	Desilting & renovation of lake bund in Halkundi	1 No	1 Unit at Halkundi Lake 5.00	-	-	5.00
		Total cost inLakhs		**23**	**18**	**19**	**60.00**

14. The capital cost of the proposedproject is Rs. 30.80 Crores and the capital cost for environmental protection measures is proposed as Rs. 5.0 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 0.674Crores. The employment generation from the proposedproject is 100 Nos Skilled, Semi-skilled and Un-skilled workers of will be taken for 3 shifts in a day from surrounding villages. The detailsof cost for environmental protection measures is as follows:

S. No.	Description ofItem	Existing (in lakhs)		Proposed (inlakhs)	
		Capital Cost	Recurring Cost	Capital Cost	Recurring Cost
1.	**Air Pollution Control / Noise Management**	`			
	Air Pollution Control Equipment's such as ESP, Fume extraction, closed conveyor belt system and stack arrangements	-	-	150.00	15.00
	Continuous online monitoring for stack emissions	-	-	15.00	3.00
	Stack arrangements for DG set & other sources of emissions	-	-	2.00	1.00
	Water Sprinklers with truck mounted mist system	-	-	40.00	-
	Increase of Boundary Wall height	-	-	10.00	-
	Metallic slip seal to kiln inlet & outlets, closed	-	-	10.00	2.00

S. No.	Description ofItem	Existing (in lakhs)		Proposed (inlakhs)	
		Capital Cost	Recurring Cost	Capital Cost	Recurring Cost
	wood system for collected of ESP dust, chutes for bag filters				
	Provision of PPEs for workers, enclosures and barriers for attenuation of noise	-	-	15.00	6.00
2.	Water Pollution Control				
	Installation of STP	-	-	25.00	5.00
	Provision of garland drains and catch pit	-	-	7.00	1.00
	Provision of recharge pits	-	-	5.00	1.0
3.	Provision of additional sheds for storage of raw materials / finished products	-	-	15.00	-
4.	Traffic management and asphalting of internal roads	-	-	45.0	5.0
5.	Solid & hazardous waste management	-	-	7.00	4.0
6.	**Green belt development**	-	-	6.0	3.6
7.	**Conservation Plan for Schedule-I Species**	-	-	5.00	-
8.	**Provision of solar lighting as part of Energy Conservation measures**	-	-	5.00	1.00
9.	**Environmental Monitoring during construction phase**	-	-	3.00	6.80
10.	**Vacuum Cleaner Sweeping Machine**	-	-	5.0	-
11.	**Impervious floor for raw material storage**	-	-	11.0	-
12.	**Occupational Health Safety Centre**	-	-	15.0	13.00
13.	**Action Plan for implementation of activities as per MOEF&CC OM dt: 30.09.2020**	-	-	40.00	-
14	**Action Plan for issues raised during public hearing**	-	-	60.00	-
15	**Additional**	-	-	4.00	-
	Total			**500.00**	**67.40**

15. Existing green belt has been developed in 0.81 ha area which is about 11 % of the total project area of 7.34 ha with total sapling of 2000 Trees (Plantation achieved recently). Proposed greenbelt will be developed in 1.61 ha which is about 22 % of the total project area. Thus total of 2.42 ha area (33 % of total project area) will be developed as greenbelt. A 10 m wide greenbelt, consisting of at least 3 tiers around plant boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 2000 saplings are already planted in an area of 0.81 Ha in the industry during FY 2021-22 and remaining 4050 saplings will be planted and nurtured in 1.61 hectares in 1 year. Hence the total greenbelt area will be 2.42 Ha (33 % of the total area).

16. The proponent has reported that Earlier, KSPCB has issued closure order for the industry on 20.11.2009 and for which request has been submitted to KSPCB on 21.03.2023 for revoking the closure order to re-start the industry by new management.

Certified compliance report from Regional Office

17. Environmental officer, KSPCB, Regional Office Ballari inspected the site on 24.01.2023 and made the following observations:

Infrastructure facilities available at site;

Sl.No	Particulars	Capacity	Remarks
1	Rotary Kiln 1 x 50 TPD	Chimney of height 40 m AGL with Heat Exchange and ESP	Machinery is not used for long period and is in rusted

Sl.No	Particulars	Capacity	Remarks
2	Coal Crushing and Screening System	Chimney of height 30 m AGL with Bag filters	condition and needs maintenance
3	Cooler Discharge	Chimney of height 30 m AGL with Bag filters	
4	Iron ore crushing and screening system	Chimney of height 30 m AGL with Bag filters	
5	Intermediate Bin	Chimney of height 30 m AGL with Bag filters	
6	DG Set 380 KVA	Chimney provided with 10 m ARL	Needs Maintenance

Other observations:

1. The Plant was not in operation and the machinery was lying unused over a long period of time. The machinery needs maintenance.
2. Presently there is one Rotary Kiln of capacity 1 x 50 TPD (established by M/s. Banashankari Steel & Alloy Private Limited) with chimney of height 40 m with Heat exchanger and ESP as APC measure. The project proponent (M/s. PVSR Steel and Power Private Limited) has proposed to upgrade the existing 50 TPD Rotary Kiln to 100 TPD and add new Rotary Kiln with capacity 1 X 100 TPD (2 X 100 TPD) and Captive Power Generation Plant of capacity 2 MW.
3. Provided Raw material storage shed. But no raw material was available at the time of inspection.
4. Provided compound wall along with the boundary of the industry.
5. Provided Weigh Bridge, Laboratory and Labor rooms facility within the premises. But the same was not in use.
6. Conveyors are closed with semicircular MS sheets.
7. Housekeeping is good, there is a scope for future improvement.
8. The project proponent in the last 3 years has planted about 2000 saplings within the plant premises to develop greenbelt.

18. M/s. PVSR Steel & Power Pvt. Ltd had earlier made an online application vide proposal no. IA/KA/IND/138176/2020 dated 04.10.2021. The proposal was considered in 46th meeting of Re-constituted EAC (Industry-1) held on 11.10.2021, and was deferred for want of additional information. The observations and recommendation is given as below:

Deliberations by the Committee (EAC during 11th October, 2021)

The Committee noted the following:

1. As per the public hearing proceedings, 38 people participated in the hearing. Out of 38, 34 people have opposed the proposed project on account of pollution and health concerns prevailing in the area. It has been recorded at the end of public hearing proceedings that “As almost all the people present at the Public Hearing expressed their opinion against the setting up of the industry. The Deputy Commissioner opines that no new industries may be allowed to be set up in this-area as existing pollution levels are at saturation levels and new units will only aggravate the situation leading to frequent law and order disturbance”.
2. In this regard, PP informed to the EAC that in the written submissions as part of the public consultation proceedings several people have supported the project activity. However, the said written submissions have not been made available by the proponent.
3. Particulate matter emission level in the ambient air is reported to be exceeding the NAAQS. No explanation is made available by the PP in this regard.
4. Action plan to address the issues raised during public hearing is not in conformity to the MoEF&CC O.M. dated 30/09/2020.
5. Status of approval of Wildlife Conservation Plan for conservation of Schedule I species and approval from the Competent Authority for use of tertiary treated water in the proposed project has not been made available.

Recommendations of the Committee (EAC during 11th October, 2021)

Proposal recommended to be returned in its present form to address the shortcomings enumerated at para above.
The Ministry may seek comments/views from the State Government of Karnataka on the existing industries, pollution

& health concerns and issues related to the law and order prevailing in the area for taking appropriate view on the proposal under consideration keeping in view the aforesaid comments of the Dy. Commissioner as mentioned in para above.

19. Based on the EAC recommendations, MOEFCC vide letter no. J-11011/42/2020-IA.II(I) Dt: 27.10.2021 directed the State Government to submit the comments / views on existing industries, pollution & health concerns and issues related to the law and order prevailing in the area for taking appropriate view on the proposal under consideration keeping in view of the aforesaid comments of the Dy. Commissioner.

20. In view of the above, the State Government of Karnataka has examined the issue and vide letter no. FEE 275 EPC 2021 submitted the report and Compliance to the observations of Ministry is as follows:

Sl. No	Observation	Compliance
1.	Details of existing industries	There are nine other sponge iron plants surrounded by PVSR Steel and Power Pvt. Ltd. in Halkundi Industrial Cluster, they are M/s VRKP Sponge & Power Pvt. Ltd., M/s Popuri Steel Ltd., M/s Supra Steel & Power Pvt. Ltd., M/s Rangineni Steel, M/s Bellary Ispat, M/s Balaji Swamy premimum Steels Pvt. Ltd., M/s Shirdi Sai Steels, M/s Venkateshwara Sponge & Power Pvt. Ltd. and M/s Yashaswi Steels and Alloys Pvt. Ltd. Out of nine industries, seven industries are operative.
1.	Pollution & health concerns	The air quality monitoring and stack monitoring conducted by KSPCB with respect to PM10 and PM2.5 is within the limits specified for NAAQM standards in most of the cases except few spikes. The air quality index in the areas is also varying from Good to Satisfactory to Moderate. The reason for the above scenario is due to transportation of vehicles on National Highway and Ballari Ring Road, Movement of Vehicles carrying raw materials, non asphalting of networking of words and non operation of APCEs during night hours. There are no direct correlating factors for relating the community health to Air Quality in the area as the symptoms observed i.e., Cough and Chronic Obstructive Pulmonary Disease (COPD) is common and industrial setting may one of the reasons along with many other related factors.
1.	Law and order prevailing in the area	The State Government of Karnataka has examined the issue and sought the views of Dy. Commissioner, Ballari. He submitted that, view from SEIAA, Karnataka may be obtained for final decision in this regard. Hence, committee constituted under the Chairmanship of Chairman, SEIAA. The said committee visited the site and held discussion with District Authorities, Ballari. Further, the committee submitted the report to Government with the following recommendation that the project proponent may be advised to implement the following. 1. Implement covered storage areas for iron ore to prevent it being air borne which may also be one of the reasons for factors leading to prevailing air quality in the area. This may be extended to all such industries in the cluster. 2. The Coal from the Coal stack area (covered) shall be conveyed to the coal feed section through mechanical belt conveyor system. 3. The project proponent may also be advised to do plantation all along the periphery of the project site and internal areas of the plant with large canopy vegetation.

21. M/s. PVSR Steel & Power Pvt. Ltd. has again applied for EC vide Proposal no. IA/KA/IND1/420560/2023 Dated 04.05.2023 with reply to the points raised during the 46th meeting of Re-constituted EAC (Industry-1) held on 11.10.2021 as follows:

Sl. No	ADS Point	Reply / Response of PP
1	As per the public hearing proceedings, 38 people participated in the hearing. Out of 38, 34 people have opposed the proposed project on account of pollution and health concerns prevailing in the area. It has been recorded at the end of public hearing proceedings that "As almost all the people present at the Public Hearing expressed their opinion against the setting up of the industry. The Deputy Commissioner opines that no new industries may be allowed to be set up in this-area as existing pollution levels are at saturation levels and new units will only aggravate the situation leading to frequent law and order disturbance".	MoEFCC vide letter Dt: 27.10.2021 directed the Government o Karnataka to comments / views on the existing industries, pollution and health concerns and issues related to the law and orde prevailing in the area for taking appropriate view on the proposa under consideration keeping in the view of the comments of the Deputy Commissioner. Government of Karnataka after careful examination of the matte vide letter Dt: 21.01.2023 was of the opinion that, the said proposed Sponge Iron Plant and Captive Power Generation Plant can be established with the following mitigation measures; a) Implement covered storage areas for iron ore to prevent it being air borne which may also be one of the reasons for factors leading to prevailing air quality in the area. This may be extended to all such industries in the cluster. b) The Coal from the Coal stack area (covered) shall be conveyed to the coal feed section through mechanical belt conveyor system. c) The project proponent may also be advised to do plantation al along the periphery of the project site and internal areas of the plan with large canopy vegetation. In view of the above, M/s PVSR Steel and Power Pvt. Ltd. is hereby agreed to implement the above conditions and the same has been incorporated in the Revised EIA Report.
2	In this regard, PP informed to the EAC that in the written submissions as part of the public consultation proceedings several people have supported the project activity. However, the said written submissions have not been made available by the proponent.	All the Written submissions as part of Public Consultation are submitted along with Revised EIA Report.
3	Particulate matter emission level in the ambient air is reported to be exceeding the NAAQS. No explanation is made available by the PP in this regard.	The maximum concentrations of PM_{10} at Project site was recorded as 78 µg/m^3 and whereas in the study area the average concentrations of PM_{10} was observed to be 106.80 µg/m^3. • The project site is surrounded by cluster of Sponge Iron industries and Tumati-Obalapuram Iron Ore mines. • Due to movement of uncovered Trucks carrying raw materials and finished products through un-asphalted Halkundi-Vithalapuram Road leads to slightly increase in background levels of PM_{10} in the study area. • Transportation of vehicles on the Ballari-Bangalore National highway and Ballari Ring Road also contribute to air pollution in the industrial area. • The increase in concentration PM during monitoring period was slightly higher due to temperature inversion effects. • The existing sponge iron industries in the cluster were operating at a smaller scale with Bag filter as APCE and now they are upgrading with expansion of capacity along with ESP as APCE. • Government of Karnataka proposed to upgrade the existing Halkundi-Vithalapuram Road as 'asphalted / concrete' road. • Plantation along the Halkundi-Vithalapuram Road has proposed under CER activities.
4	Action plan to address the issues raised during public hearing is not in conformity to the MoEF&CC O.M. dated 30/09/2020.	Revised action plan in conformity to the MoEF&CC O.M. dated 30/09/2020 to address the issues raised during public hearing has been submitted along with Revised EIA Report.

Sl. No	ADS Point	Reply / Response of PP
5	Status of approval of Wildlife Conservation Plan for conservation of Schedule I species and approval from the Competent Authority for use of tertiary treated water in the proposed project has not been made available.	The Deputy Conservator of Forests, Ballari Forest Division Karnataka Forest Department vide letter Dt: 09.01.2023 recommended the Conservation Plan for Schedule – I Species. Permission Letter for supply of Tertiary Treated Water obtained from Commissioner, Ballari Municipal Corporation on 18.01.2023.

22. Based on the above submission of PP, the proposal has been considered during 34th meeting of the EAC for Industry-I sector held on 31st May, 2023. The deliberations and recommendations of EAC are as follows:

Written representations:

23. During the meeting, based on the deliberations made by the EAC, the project proponent through email dated 31.05.2023 submitted the following information:

- Revised Contour map showing with Bench mark, Road network and drainage network along road side with drainage flow, disposal of drainage flow at lowest point with invert level
- Revised Greenbelt Map showing existing Green belt and proposed Green Belt with its % against plot area.
- Revised Engineering Layout Map

3.4.3. Deliberations by the EAC in previous meetings

N/A

3.4.4. Deliberations by the EAC in current meetings

The Committee noted the following:

1. The instant proposal for refurbish & upgradation of existing 1x50 TPD kiln to 1x100 TPD preheater kiln and establishment of new 1 x 100 TPD Kiln for manufacturing of 200 TPD Sponge Iron along with 2 MW Captive Power Plant for generation of power by utilizing waste heat for production of 0.066 Million Tons Per Annum (MTPA) / 66000 TPA.

2. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.

3. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

4. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.

5. M/s. PVSR Steel & Power Pvt. Ltd. is an existing Shut-down sponge iron industry having 1x50 TPD Kiln for manufacturing of sponge iron, earlier the plant was in the name of M/s. Banashankari Steels & Alloys Pvt. Ltd. & the earlier management was obtained CFE for existing 50 TPD sponge iron plant on 22.08.2007 vide file No. KSPCB/EO (BLY)/DEO/AEO-1/CFE/MR/2007-08/1181 and shut down due to financial glitches during 2012. Currently it is non-operating industry. The new management of the M/s. PVSR Steel & Power Pvt. Ltd. purchased the entire plant through SBI Bank and now proposed for Refurbish & upgradation of existing 1x50 TPD kiln to 1x100 TPD preheater kiln and establishment of new 1 x 100 TPD kiln for manufacturing of 200 TPD Sponge Iron along with 2 MW Captive Power

Plant. Further the industry had obtained Certified Inspection Report for the existing 50 TPD Sponge Iron Industry.

6. The EAC noted that the following chronology w.r.t. the instant proposal:

- M/s. PVSR Steel & Power Pvt. Ltd had earlier made an online application vide proposal no. IA/KA/IND/138176/2020 dated 04.10.2021. The proposal was considered in 46th meeting of Re-constituted EAC (Industry-1) held on 11.10.2021, and was deferred for want of additional information as detailed in para 34.2.18 above.
- Based on the EAC recommendations, MOEFCC vide letter no. J-11011/42/2020-IA.II(I) Dt: 27.10.2021 directed the State Government to submit the comments / views on existing industries, pollution & health concerns and issues related to the law and order prevailing in the area for taking appropriate view on the proposal under consideration keeping in view of the aforesaid comments of the Dy. Commissioner.
- In view of the above, the State Government of Karnataka has examined the issue and vide letter no. FEE 275 EPC 2021 submitted the report and Compliance to the observations of Ministry as detailed in para 34.2.20 above.
- M/s. PVSR Steel & Power Pvt. Ltd. has again applied for EC vide Proposal no. IA/KA/IND1/420560/2023 Dated 04.05.2023 with reply to the points raised during the 46th meeting of Re-constituted EAC (Industry-1) held on 11.10.2021 as detailed in para 34.2.21 above.

7. Total revised project land is 7.35 ha (18.15 acres) which is under the possession of the company. Out of 7.35 ha, 4.9 ha is already converted to industrial land use and remaining land of 2.45 ha is under process of conversion to industrial purpose.

8. The nearest human settlement from the site is Halkundi Village located at a distance of 1.35 Kms in the NE direction of the project site. Also Ballari RF is at a distance of 0.93 Km in SW of project site.

9. Halkundi Lake (1.43 km,NE), Tungabhadra High Level Canal (4.30 km, NE) and Allipura Reservoir (8.60 km, NW) exists within the study area of 10 km from the project site. The EAC is of the opinion that water bodies shall not be disturbed. Mitigation measures w.r.t. safeguarding the water bodies shall be implemented.

10. The water requirement for the proposed project is estimated as 160 m^3/day, out of which 5 m^3/day of fresh water requirement will be obtained from the Bore well for domestic operations and the remaining 155 m^3/day will be met from Ballari City Municipal Corporation for industrial operations.

11. The PP submitted that existing green belt has been developed in 0.81 ha area which is about 11 % of the total project area of 7.34 ha with total sapling of 2000 Trees (Plantation achieved recently). Proposed greenbelt will be developed in 1.61 ha which is about 22 % of the total project area. Thus total of 2.42 ha area (33 % of total project area) will be developed as greenbelt. Total no. of 2000 saplings are already planted in an area of 0.81 Ha in the industry during FY 2021-22 and remaining 4050 saplings will be planted and nurtured in 1.61 hectares in 1 year. Hence the total greenbelt area will be 2.42 Ha (33% of the total area). The EAC deliberated on the greenbelt action plan and opined that greenbelt remaining greenbelt shall be completed in the coming monsoons of 2023.

12. The Committee has found that the baseline data and revised incremental GLC due to the proposed project and observed that PM10 and PM2.5 values are recorded very high. The EAC opined that PP shall strictly implement the mitigation measures submitted to minimise the same.

13. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.

14. The Committee also deliberated on the public hearing issues along with action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.

15. Indian Peafowl and Shikra are Schedule-I Species recorded in the study area of the project site. As reported, Conservation Plan has been prepared with an allotted budget of Rs. 5 Lakhs & submitted to Karnataka Forest Dept., Ballari which was approved by DCF, Ballari on 09.01.2023 & recommended for approval to CCF, Ballari.

16. The Committed deliberated in detail the submission of State Government of Karnataka and the submission of PP to the queries raised by the previous Committee in the earlier application and found it satisfactory.

17. The EAC also deliberated on the submitted written representation of project proponent and found it satisfactory.

18. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA

Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.

19. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for grant of Environment Clearance **subject to uploading the written submission on portal** under the provisions of EIA Notification, 2006 subject to stipulation of following specific conditions and general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 based on project specific requirements:

3.4.5. Recommendation of EAC

Recommended (Subject to submission of requisite information/ documents)

3.4.6. Details of Environment Conditions

3.4.6.1. Specific

Specific conditions	
1.	1. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project. 2. The PP shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented. 3. The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard. 4. PP shall commence the project activity only after total conversion of land for industrial purpose from the Competent Authority. 5. PP shall strictly implement the additional Environmental safe guards as proposed to address the emissions due to high AAQ values. 6. The nearest human settlement from the site is Halkundi Village located at a distance of 1.35 Kms in the NE direction of the project site. Also Ballari RF is at a distance of 0.93 Km in SW of project site. Project Proponent shall prepare and implement an action plan for environmental safeguard measures to minimise the impact on these ESA's. The company shall also include Halkundi Village in its environmental monitoring programme. 7. Halkundi Lake (1.43 km,NE), Tungabhadra High Level Canal (4.30 km, NE) and Allipura Reservoir (8.60 km, NW) exists within the study area of 10 km from the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented. 8. The water requirement of 160 m^3/day, shall be met from the Ballari City Municipal Corporation (155 m^3/day) and from the Bore well (5 m^3/day) for domestic operations. After obtaining necessary permission from the Competent Authority(ies). 9. Three tier Green Belt shall be developed in atleat 33% of project area in in the coming monsoons of 2023 with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy alongwith windshield inside the plant premises to act as green barrier for air pollution & noise

	levels towards the Halkundi village. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC. 10. Sensors for carbon monoxide gas with alarm system must be installed at strategic locations in the Plant. 11. All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 amounting to Rs. 0.60 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC. 12. The PP shall undertake village adoption and formulate Village Adoption program consisting of need-based community development activities, to develop them into model villages.

3.4.6.2. Standard

3(a)	**Metallurgical Industries (ferrous and non ferrous)**
Statutory compliance	
1.	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.
Air Quality Monitoring and Preservation	
1.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 02 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
Water Quality Monitoring and Preservation	
1.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 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 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
3.	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
4.	Water meters shall be provided at the inlet to all unit processes in the plants
5.	The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water
6.	The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body
7.	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust

	suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report
8.	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report
9.	Air Cooled condensers shall be used in the captive power plant
Noise Monitoring and Prevention	
1.	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer 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.
Energy Conservation Measures	
1.	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
2.	Provide LED lights in their offices and residential areas
3.	The project proponent shall provide waste heat recovery system on the DRI Kilns
4.	The dolochar generated shall be used for power generation
Waste Management	
1.	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil
2.	Kitchen waste shall be composted or converted to biogas for further use
3.	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents
4.	A proper action plan must be implemented to dispose of the electronic waste generated in the industry
Green Belt	
1.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
2.	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company’s carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined

	time frames.
3.	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
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.
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, creche 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.
Environment Management	
1.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
2.	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.
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 to the head of the organization.
4.	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.
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.	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.
3.	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.
4.	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.

5.	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
6.	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.
7.	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.
8.	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.
9.	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.
10.	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
11.	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
12.	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).
13.	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.
14.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
15.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
16.	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.
17.	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.
Air Quality Monitoring and Preservation	
1.	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB
1.	Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions
1.	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
1.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags
1.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly
1.	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin
1.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles
1.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars
1.	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM_{10} and $PM_{2.5}$ in reference to PM emission, and SO_2 and NOx in reference to SO_2 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.
1.	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere
1.	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals
1.	Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant
1.	The particulate matter emissions from the process stacks shall be less than 30 mg/Nm^3 and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed
1.	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system
1.	During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented
1.	The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m^3, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948
1.	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.
Energy Conservation Measures	

1.	Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns
1.	The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard
Noise Monitoring and Prevention	
1.	PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948

3.5. Agenda Item No 5:

3.5.1. Details of the proposal

Expansion of Integrated Cement Plant - Clinker (2.4 to 8.0 Million TPA), Cement (4.0 to 9.0 Million TPA), Waste Heat Recovery Power Generation (30 to 70 MW), D.G. Sets (2000 to 3000 KVA) along with installation of Captive Power Plant (2 x 25 MW), Synthetic Gypsum Plant (1560 TPD) & Railway Siding At Village: Benkanhalli, Taluka: Sedam, District: Kalaburagi (Karnataka) By Shree Cement Limited (Unit: Karnataka Cement Project) by **Shree Cement Ltd.** located at **KALABURAGI,KARNATAKA**

Proposal For		Fresh EC	
Proposal No	**File No**	**Submission Date**	**Activity (Schedule Item)**
IA/KA/IND1/426062/2023	IA-J-11011/458/2008-IA-II(IND-I)	17/05/2023	Cement plants (3(b))

3.5.2. Project Salient Features

1. Shree Cement Limited (Unit: Karnataka Cement Project) has made an online application vide proposal no. IA/KA/IND1/426062/2023 dated 17th May, 2023 along with copy of EIA report and Forms (Part A, B and C) and certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(b) Cement Pants under Category "A" of the schedule of the EIA Notification, 2006 being appraised at Central Level.

2. Name of the EIA consultant: M/s. J.M. EnviroNet Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2023/SA 0172; valid upto 07.08.2023, as on June 2, 2023].
Details submitted by Project proponent

3. The details of the ToR are furnished as below:

Date of Application	Consideration	Details	Date of Accord	ToR Validity
23th March, 2021	Standard ToR was issued by MoEF&CC	Terms of Reference	26th March, 2021	25th March, 2025

4. The project of M/s. Shree Cement Limited (Unit: Karnataka Cement Project) located at Village - Benkanhalli, Taluka - Sedam, District – Kalaburagi Karnataka State is for expansion of Integrated Cement Plant - Clinker (2.4 to 8.0 Million TPA), Cement (4.0 to 9.0 Million TPA), Waste Heat Recovery Power Generation (30 to 70 MW), D.G. Sets (2000 to 3000 KVA) along with Installation of Captive Power Plant (2 x 25 MW), Synthetic Gypsum Plant (1560 TPD) & Railway Siding.

5. The proposal was considered during 34th meeting of the EAC for Industry-I sector held on 31st May, 2023. The deliberations and recommendations of EAC are as follows:

3.5.3. Deliberations by the EAC in previous meetings

N/A

3.5.4. Deliberations by the EAC in current meetings

The Committee noted the following:

1. The PP reported that the total area of project is 173.32 ha. and existing plant has been installed in 166.2 ha area, which is under the possession of the company (SCL) and remaining 7.12 ha is yet to be acquired and under negotiation. The proposed expansion will be done within the existing plant premises (i.e., 166.2 ha). The EAC is of the view that since they have only 166.2 ha area in possession and the proposed expansion will take place within the existing plant premises only, therefore, PP shall revise their land area statement in all the documents submitted in the instant application in the light of availability of land with them and accordingly submit the revised application for consideration.
2. Existing greenbelt has been developed in 57.2 ha area which is about 33% of the total project area of 173.32 ha with total saplings of 67636 trees which is observed to be much less than the norms of 2500 saplings / ha. Also, proposed greenbelt is planned to be developed in 7.12 ha for which land is yet to be acquired. The EAC opined that since it is already advised in the para above to revise their land area statement, PP shall submit a revised greenbelt development plan excluding the 7.12 ha unacquired area along with the undertaking by way of affidavit that they will complete the greenbelt in the coming monsoons of 2023.
3. It is reported that there are approx. 34 other villages in 10 km radius study area and other ESA's such as school nearby to the project site. Project Proponent shall prepare and submit an action plan for environmental safeguard measures to minimise the impact on the habitation of the locals.
4. The EAC noted that the total water requirement after the proposed expansion is estimated as 2543 m^3/day which is proposed to be sourced from Groundwater, Kagina river and Mine pit of the captive mines of Shree Cement Limited. In view this, PP shall submit the breakup of water to be obtained from each source.
5. The Committee deliberated on the public hearing issues along with action plan submitted by the proponent to address the issues raised during the public hearing and is of the view that the submitted action is not sufficient to address all the issues. The EAC advised PP to revise the action plan as per Ministry's O.M. dated 30.09.2020.
6. The PP shall prepare a Village Adoption program consisting of need - based community development activities and submit an undertaking for adoption of villages including the name of villages.
7. Thus, EAC is of the view that PP/Consultant shall revise the whole proposal and submit the same for further consideration.
8. In view of above, the PP requested the Committee to allow to reappear with the revised information/ clarification to the points deliberated during appraisal.

In view of the foregoing and after detailed deliberations, the committee recommended to **defer the proposal** due to certain deficiencies in the proposal and sought requisite information on the points referred at para no. 34.1.6 above. The proposal shall be considered after submission of requisite information and updating the Report on Parivesh Portal.

3.5.5. Recommendation of EAC

Deferred for ADS

4. Any Other Item(s)

N/A

5. List of Attendees

Sr. No.	Name	Designation	Email ID	Remarks
1	Dr R B Lal	Scientist F	rb.lal@nic.in	Present

2	Shri Rajive Kumar	Chairman, EAC	chairman.eac.ind.1@gmail.com	Present
3	Dr Dipankar Shome	Member (EAC)	dshome61@gmail.com	Present
4	Dr S Ranganathan	Member (EAC)	ranganathan.metals@gmail.com	Present
5	Dr Ranjit Prasad	Member (EAC)	ranjitnitj@gmail.com	Present
6	Dr E V R Raju	Member (EAC)	rajuevr60@gmail.com	Present
7	Dr S K Singh	Member (EAC)	sksinghdce@gmail.com	Present
8	Dr Jai Krishna Pandey	Member (EAC)	drjkpandey.eac.industry1@gmail.com	Present
9	Dr Tejaswini Ananthkumar	Member (EAC)	tejaswini.acf@gmail.com	Present
10	Dr Hemant Sahasrabuddhe	Member (EAC)	sshemant_801@rediffmail.com	Present
11	Dr S K Chaturvedi	Member (EAC)	dg@ncbindia.com	Present
12	Dr S Raghavan	Scientist D	raghuharihar@gov.in	Present

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(IA DIVISION-INDUSTRY-1 SECTOR)

*****

Dated: 07.06.2023

Date of Zero Draft MoM sent to EAC:05.06.2023
Approval by Chairman:06.06.2023
Uploading on PARIVESH: 07.06.2023

MINUTES OF THE 34TH EXPERT APPRAISAL COMMITTEE (INDUSTRY-1 SECTOR) MEETING HELD ON 31ST MAY, 2023

Venue: **Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 110003 through Video Conferencing**

Time: **10:30 AM onwards**

DAY-1: MAY 31, 2023 [WEDNESDAY]

(i) Opening Remarks by the Chairman, EAC

Shri. Rajive Kumar, Chairman EAC welcomed the Committee members and opened the EAC meeting for further deliberations.

Shri. Rajive Kumar also appreciated the efforts of the Ministry's Team (Industry 1 Sector) for preparation and uploading the agenda of the EAC meetings and draft record of discussion very scientifically, systematically and timely on Parivesh Portal.

(ii) Details of Proposals and Agenda by the Member Secretary

Dr. R. B. Lal, Scientist 'F' & Member Secretary, EAC (Industry-1 Sector) appraised to the Committee about the details of Agenda items to be discussed during this EAC meeting.

(iii) Confirmation of the Minutes of the 30th and 31st Meeting of the EAC (Industry-1 Sector) held during 15th and 16th May, 2023 at MoEF&CC through VC.

The EAC, having taken note that final minutes were issued after incorporating comments offered by the EAC (Industry-1 Sector) members on the minutes of its **30th and 31st Meeting of the EAC (Industry-1 Sector) held during 15th and 16th May, 2023** conducted through Video Conferencing, and noted that there is one modifications/factual correction, in the minutes of the 31st EAC meeting for the project/activities and same was incorporated in the Minutes of 32nd EAC meeting held on May 26th & 29th May 2023.

Details of the proposals considered during the 34th meeting **conducted** through **Video Conferencing**, deliberations made and the recommendations of the Committee are explained in the respective agenda items as under:

Consideration of Environmental Clearance Proposals

Agenda No. 34.1

34.1 Expansion of Integrated Cement Plant - Clinker (2.4 to 8.0 Million TPA), Cement (4.0 to 9.0 Million TPA), Waste Heat Recovery Power Generation (30 to 70 MW), D.G. Sets (2000 to 3000 KVA) along with installation of Captive Power Plant (2 x 25 MW), Synthetic Gypsum Plant (1560 TPD) & Railway Siding by M/s Shree Cement Limited (Unit: Karnataka Cement Project), located at Village: Benkanhalli, Taluka: Sedam, District: Kalaburagi, Karnataka– Consideration of Environmental Clearance.

[Proposal No. IA/KA/IND1/426062/2023; File No. IA-J-11011/458/2008-IA-II-(IND-I)]
[Consultant: JM EnviroNet Pvt. Ltd.; Valid upto 07.08.2023]

34.1.1 Shree Cement Limited (Unit: Karnataka Cement Project) has made an online application vide proposal no. IA/KA/IND1/426062/2023 dated 17th May, 2023 along with copy of EIA report and Forms (Part A, B and C) and certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(b) Cement Pants under Category "A" of the schedule of the EIA Notification, 2006 being appraised at Central Level.

34.1.2 Name of the EIA consultant: M/s. J.M. EnviroNet Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2023/SA 0172; valid upto 07.08.2023, as on June 2, 2023].

Details submitted by Project proponent

34.1.3 The details of the ToR are furnished as below:

Date of Application	Consideration	Details	Date of Accord	ToR Validity
23th March, 2021	Standard ToR was issued by MoEF&CC	Terms of Reference	26th March, 2021	25th March, 2025

34.1.4 The project of M/s. Shree Cement Limited (Unit: Karnataka Cement Project) located at Village - Benkanhalli, Taluka - Sedam, District – Kalaburagi Karnataka State is for expansion of Integrated Cement Plant - Clinker (2.4 to 8.0 Million TPA), Cement (4.0 to 9.0 Million TPA), Waste Heat Recovery Power Generation (30 to 70 MW), D.G. Sets (2000 to 3000 KVA) along with Installation of Captive Power Plant (2 x 25 MW), Synthetic Gypsum Plant (1560 TPD) & Railway Siding.

34.1.5 The proposal was considered during 34th meeting of the EAC for Industry-I sector held on 31st May, 2023. The deliberations and recommendations of EAC are as follows:

Deliberations by the Committee

34.1.6 The Committee noted the following:

1. The PP reported that the total area of project is 173.32 ha. and existing plant has been installed in 166.2 ha area, which is under the possession of the company (SCL) and remaining 7.12 ha is yet to be acquired and under negotiation. The proposed expansion will be done within the existing plant premises (i.e., 166.2 ha). The EAC is of the view that since they have only 166.2 ha area in possession and the proposed expansion will take place within the existing plant premises only, therefore, PP shall revise their land area statement in all the documents submitted in the instant application in the light of availability of land with them and accordingly submit the revised application for consideration.
2. Existing greenbelt has been developed in 57.2 ha area which is about 33% of the total project area of 173.32 ha with total saplings of 67636 trees which is observed to be much less than the norms of 2500 saplings / ha. Also, proposed greenbelt is planned to be developed in 7.12 ha for which land is yet to be acquired. The EAC opined that since it is already advised in the para above to revise their land area statement, PP shall submit a revised greenbelt development plan excluding the 7.12 ha unacquired area along with the undertaking by way of affidavit that they will complete the greenbelt in the coming monsoons of 2023.
3. It is reported that there are approx. 34 other villages in 10 km radius study area and other ESA's such as school nearby to the project site. Project Proponent shall prepare and submit an action plan for environmental safeguard measures to minimise the impact on the habitation of the locals.
4. The EAC noted that the total water requirement after the proposed expansion is estimated as 2543 m^3/day which is proposed to be sourced from Groundwater, Kagina river and Mine pit of the captive mines of Shree Cement Limited. In view this, PP shall submit the breakup of water to be obtained from each source.
5. The Committee deliberated on the public hearing issues along with action plan submitted by the proponent to address the issues raised during the public hearing and is of the view that the submitted action is not sufficient to address all the issues. The EAC advised PP to revise the action plan as per Ministry's O.M. dated 30.09.2020.
6. The PP shall prepare a Village Adoption program consisting of need - based community development activities and submit an undertaking for adoption of villages including the name of villages.
7. Thus, EAC is of the view that PP/Consultant shall revise the whole proposal and submit the same for further consideration.
8. In view of above, the PP requested the Committee to allow to reappear with the revised information/ clarification to the points deliberated during appraisal.

Recommendations of the Committee

34.1.7 In view of the foregoing and after detailed deliberations, the committee recommended to **defer the proposal** due to certain deficiencies in the proposal and sought requisite information on the points referred at para no. 34.1.6 above. The proposal shall be considered after submission of requisite information and updating the Report on Parivesh Portal.

***

Agenda No. 34.2

34.2 Establishment of 2 X 100 TPD Sponge Iron (DRI) Plant and 2 MW Captive Power Generation Plant by M/s. PVSR Steel and Power Pvt. Ltd., located at Sy. No. 228/1, 228/2, 228/3, Halakundi Village, Ballari Taluk & District, Karnataka-Consideration of Environmental Clearance.

[Proposal No. IA/KA/IND1/425306/2023; File No. IA-J-11011/42/2020-IA-II-(IND-I)]
[Consultant: Environmental Health and Safety Consultants Private Limited.; Valid upto 20.08.2024]

34.2.1 M/s. PVSR Steel & Power Pvt. Ltd. has made an online application vide proposal no. IA/KA/IND1/420560/2023 Dated 04.05.2023 along with copy of EIA/EMP report, Forms (Part A, B and C) seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(a), Metallurgical industries (ferrous & non-ferrous) and 1 (d) Thermal Power Plants under Category "A" of the schedule of the EIA Notification, 2006 and attracts general condition due to inter-state boundary (Karnataka - Andhra Pradesh Boundary) at 1.55 Km and being appraised at Central Level.

34.2.2 Name of the EIA consultant: M/s. Environmental Health and Safety Consultants Private Limited [List of ACOs with their Certificate / Extension Letter No: NABET/EIA/2124/RA 0241; valid upto 22.08.2024, as on June 2, 2023].

Details submitted by Project proponent

34.2.3 The details of the ToR are furnished as below:

Date of Application	Consideration	Details	Date of Accord	ToR Validity
22.01.2020	16th Meeting of EAC held on 24.02.2020	Terms of Reference	05.05.2020	04.05.2024
17/10/2020	24th Meeting of EAC held on 27.10.2020	Amendment to ToR	15.12.2020	

34.2.4 The project of M/s PVSR Steel and Power Pvt. Ltd located in Halakundi Village, Ballari Tehsil, Ballari District, Karnataka State is for refurbish & upgradation of existing 1x50 TPD kiln to

1x100 TPD preheater kiln and establishment of new 1 x 100 TPD Kiln for manufacturing of 200 TPD Sponge Iron along with 2 MW Captive Power Plant for generation of power by utilizing waste heat for production of 0.066 Million Tons Per Annum (MTPA) / 66000 TPA.

34.2.5 Environmental Site Settings:

<table>
<tr><th>S. No</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td>i.</td><td>Total Land</td><td>7.35 ha (18.15 acres)</td><td>Land use : Out of 18.15 acres 12.1 acres is already converted to industrial land use and remaining land of 6.05 acres is under process of conversion to industrial purpose</td></tr>
<tr><td>ii.</td><td>Land acquisition details as per MoEF & CC O.M dated 7/10/2014</td><td>There is no land acquisition. The entire land is under the possession of proponent.</td><td></td></tr>
<tr><td>iii.</td><td>Existence if habitation & involvement of R & R, if any</td><td>Project site: Nil
Study Area:
Halkundi Village – 1.35 km, NE</td><td>-</td></tr>
<tr><td>iv.</td><td>Latitude and Longitude of the project site</td><td><table><tr><th>Latitude</th><th>Longitude</th></tr><tr><td>15° 4'19.75"N</td><td>76°52'15.65"E</td></tr><tr><td>15° 4'30.50"N</td><td>76°52'28.11"E</td></tr><tr><td>15° 4'31.83"N</td><td>76°52'32.01"E</td></tr><tr><td>15° 4'25.43"N</td><td>76°52'28.88"E</td></tr><tr><td>15° 4'17.69"N</td><td>76°52'19.94"E</td></tr></table></td><td>-</td></tr>
<tr><td>v.</td><td>Elevation of the project site</td><td>495 m AMSL</td><td>-</td></tr>
<tr><td>vi.</td><td>Involvement of Forest land if any</td><td>No forest land involved in the project land</td><td>-</td></tr>
<tr><td>vii.</td><td>Water body exists within the project site as well as study area</td><td>Project Site-Nil

Study Area:<table><tr><th>Water body</th><th>Distance</th><th>Direction</th></tr><tr><td>Halkundi Lake</td><td>1.43 Km</td><td>NE</td></tr><tr><td>Tungabhadra High Level Canal</td><td>4.30 Km</td><td>NE</td></tr><tr><td>Allipura Reservoir</td><td>8.60 Km</td><td>NW</td></tr></table></td><td>-</td></tr>
<tr><td>viii.</td><td>Existence of ESZ/ESA/National Park/Wild Life Sanctuary/Biosphere Reserve/Tiger Reserve/Elephant</td><td>Project Area: Nil

Study Area:
• Ballari RF – 0.93 Km, SW
• Mincheri RF – 2.80 Km, SE
• Metriki RF – 9.11 Km, SW
• Hirehalu RF – 10.62 Km, SW</td><td>-</td></tr>
</table>

S. No	Particulars	Details	Remarks
	Reserve,etc. if any within the study area.		

34.2.6 M/s. PVSR Steel & Power Pvt. Ltd. is an existing Shut-down sponge iron industry having 1x50 TPD Kiln for manufacturing of sponge iron, earlier the plant was in the name of M/s. Banashankari Steels & Alloys Pvt. Ltd. & the earlier management was obtained CFE for existing 50 TPD sponge iron plant on 22.08.2007 vide file No. KSPCB/EO (BLY)/DEO/AEO-1/CFE/MR/2007-08/1181 and shut down due to financial glitches during 2012. Currently it is non-operating industry. The new management of the M/s. PVSR Steel & Power Pvt. Ltd. purchased the entire plant through SBI Bank and now proposed for Refurbish & upgradation of existing 1x50 TPD kiln to 1x100 TPD preheater kiln and establishment of new 1 x 100 TPD kiln for manufacturing of 200 TPD Sponge Iron along with 2 MW Captive Power Plant. Further the industry had obtained Certified Inspection Report for the existing 50 TPD Sponge Iron Industry.

34.2.7 The unit configuration and capacity of proposed project is given as below:

Sl. No.	Name of Unit	Capacity of each unit	Production capacity
1	Sponge Iron Plant	Refurbish & upgradation of existing 1x50 TPD kiln to 1x100 TPD preheater kiln & establishment of new 1 x 100 TPD kiln.	200 TPD
2	Captive Power Plant	2 MW	2 MW
3	Boiler (WHRB)	2 x 5 TPH	2 x 5 TPH

34.2.8 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

S. No.	Raw Material	Quantity required per annum	Source	Distance from site (Kms)	Mode of Transportation
1	Iron Ore	1,38,600 TPA	Through E – Action from local suppliers i.e. M/s. Thakur Industries, Hospet	150 Km	By road through covered trucks
2	Coal	66,000 TPA	Imported from Mangalore Port through suppliers i.e., M/s. Shree Ram Minerals, Hospet	500 Km	By road through covered trucks
3	Lime Stone	3300 TPA	Adjacent districts through suppliers	180 Km	By road through covered trucks

34.2.9 The water requirement for the proposed project is estimated as 160 m^3 /day, out of which 5 m^3/day of fresh water requirement will be obtained from the Bore well for domestic operations and the remaining 155 m^3 /day will be met from Ballari City Municipal

Corporation for industrial operations and permission for the same has been obtained from Ballari City Municipal Corporation vide letter No. BMP/TS/TNH/112/21-22(2022-23) dated 18.01.2023. Online application has been submitted on 08.02.2023 towards obtaining permission for drawl of groundwater of 5 KLD from Karnataka Ground Water Authority which is under process.

34.2.10 The power requirement for the proposed project is estimated as 1 MW, which will be met from the internal Captive Power Plant of 2 MW.

34.2.11 Baseline Environmental Studies:

Period	Initially, the study period for the project was from March-April-May, 2020 and accordingly, the baseline environmental monitoring was started from 01.03.2020. However, due to COVID-19 lock down, the data collection was discontinued on 23.03.2020. Further, the data collection resumed from October, November, 2020 and up to 5th December, 2020.
AAQ parameters at 8 Locations (min and max) for both in study area and project site	• PM_{10} = 57.81 to 106.03 µg/m^3 • $PM_{2.5}$ = 15.45 to 50.44 µg/m^3 • SO_2 = 7.70 to 15.45 µg/m^3 • Nox = 15.14 to 25.87 µg/m^3 • CO = 0.52 to 1.14 mg/m^3
Incremental GLClevel	**March 2020** PM_{10} = 0.95 µg/m^3 (at 0.10 Km in NE Direction) SO_2 = 0.1 µg/m^3 (at 0.10 Km in NE Direction) Nox = 0.06 µg/m^3 (at 0.10 Km in NE Direction) **October – November 2020** PM_{10} = 1.61 µg/m^3 (0.5 Km in NE Direction) SO_2 = 0.17 µg/m^3 (at 0.5 Km in NE Direction) NOx = 0.06 µg/m^3 (at 0.5 Km in NE Direction)
Ground water quality at 8 locations	pH: 6.91 (GW4) to 7.88 (GW7), Total Hardness: 280 (GW7) to 880 mg/l (GW4), Chlorides: 111.17 (GW7) to 431.78 mg/l (GW6), Fluoride : 0.28 (GW4) to 1.30 mg/L (GW9). Heavy metals: Zn: 0.012 (GW2 & GW4) to 1.181 mg/L (GW9), Fe: 0.053 (GW6) to 0.656 mg/L (GW7).
Surface water quality at 5 locations	• pH: 7.85 (SW-2) to 8.48 (SW-4) • DO: 4.7 (SW7) to 5 mg/l (SW2) • BOD: 4.5 (SW1) to 14 mg/l (SW6) • COD: 22.4 (SW1) to 44.8 mg/l (SW5)
Noise levels Leq(Day and Night)	43.9 to 67.34 dB(A) for day time 35.42 to 55.68 dB(A) for Night time

<table>
<tr><td>Traffic assessment study findings</td><td>

Traffic study has been conducted at study area, the project site is accessed through SH 19 (Ballari - Hiriyuru Road)/ NH 150A is passing at a distance of 0.60 Km in East direction & 7.0 Km away from SH - 132 (Ballari Hubli Road) in Northwest direction followed by through Halakundi – Vittalapuram Road (2 Lane road) which is adjacent to the project site (0 Km).
Transportation of raw material, fuel & finished product will be done 100 % by road.
Existing PCU is 2542 PCU/hr on Halkundi - Vitlapuram Road (2 Lane road) and existing level of service (LOS) is: A.

<table>
<tr><th>Road</th><th>V</th><th>C</th><th>Existing V/C</th><th>Los</th></tr>
<tr><td>Haraginadoni Road (2- Lane undivided)</td><td>2542</td><td>15000</td><td>0.17</td><td>A</td></tr>
</table>

PCU load after proposed project will be 170 (Existing + Additional) PCU/hrand level of service (LOS) will be: A.

<table>
<tr><th rowspan="2">Road</th><th colspan="4">Changed V/C and LoS after adding the generated traffic</th></tr>
<tr><th>LoS</th><th>V</th><th>V/C</th><th>LoS</th></tr>
<tr><td>Haraginadoni Road (2-lane undivided)</td><td>A</td><td>2712</td><td>0.18</td><td>A</td></tr>
</table>
* Note: Capacity as per IRC 64-1990 Guide line recommended design service is 15,000 PCU/day for 2 lane roads.
Conclusion: The level of service will be A including additional traffic due to proposed project.
<table>
<tr><th>V/C</th><th>LoS</th><th>Performance</th></tr>
<tr><td>0.0-0.2</td><td>A</td><td>Excellent</td></tr>
<tr><td>0.2-0.4</td><td>B</td><td>Very Good</td></tr>
<tr><td>0.4-0.6</td><td>C</td><td>Good</td></tr>
<tr><td>0.6-0.8</td><td>D</td><td>Fair/Average</td></tr>
<tr><td>0.8-1.0</td><td>E</td><td>Poor</td></tr>
<tr><td>1.0 & Above</td><td>F</td><td>Very Poor</td></tr>
</table>
</td></tr>
<tr><td>Flora and fauna</td><td>In buffer zone Indian Peafowl and Shikra are Schedule-I Species recorded.
Conservation Plan has been prepared with an allotted budget of Rs. 5 Lakhs & submitted to Karnataka Forest Dept., Ballari which was approved by DCF, Ballari on 09.01.2023 & recommended for approval to CCF, Ballari.</td></tr>
</table>

34.2.12 The details of solid and hazardous waste generation along with its mode of treatment/disposal is furnished as below:

S. No.	Type of Waste	Source	Quantity Generated (TPA)		Mode of Treatment
			Existing	Proposed	
By Products					

S. No.	Type of Waste	Source	Quantity Generated (TPA)		Mode of Treatment
			Existing	Proposed	
1	Iron Ore Fines	Manufacturing Process	-	22110	Sold to Beneficiation plant for manufacturing of pellets & MOU made with M/s. Thakur Industries, Hospete for giving Iron ore fines.
2	Char		-	11880	Sold to Sponge Iron Units & MOU made with M/s. Shree Ram Minerals, Hospete for giving Dolochar
Solid Waste					
1	Domestic Solid Waste	From Workers	-	4.95	Segregated into organic and inorganic solid waste and handed over to local municipal body.
2	Ash/ESP Dust/ Bag Filter Dust	Manufacturing Process	-	6600	Sold to Brick Manufacturing Units & MOU made with M/s. Shree Ram Minerals, Hospete for giving Ash/ ESP Dust/ Bag Filter Dust.
Hazardous & other Wastes					
1	Used Oil	DG sets	-	0.0375 (KL/A)	Handed over to Century Eco Solutions India Private Limited, Tumkur for further process.
2	Oil Soaked Cotton Waste		-	0.002	
3	E-waste	From industry	-	0.01	Will be given to E- Parisara Pvt. Ltd., Bangalore
4	Plastic waste	From industry	-	0.01	Will be given to Green Recycloplast Solutions Private Limited, Tumkur
5	Batteries Waste	From industry	-	0.02	Will be given to E-Pragathi Recycling Private Limited, Tumkur
6	Biomedical waste	From labours	-	0.010	Will be given to M/s. Medicare Environmental Management Pvt. Ltd., Bangalore Rural

34.2.13 Public Consultation:

Details of advertisement given	Local newspaper (Kannada) "Prajavani" National newspaper (English) "Indian Express" Date of paper advertisement : 24.07.2021
Date of public consultation	24.08.2021
Venue	Project site Premises of M/s. PVSR Steel & Power Pvt. Ltd., Halakundi Village, Ballari Taluk & District, Karnataka
Presiding Officer	Shri. Pavan Kumar Malapati I.A.S Deputy Commissioner and District Magistrate, Ballari District, Karnataka
Major issues raised	• Pollution levels due to surrounding cluster of Industries are Causing air pollution, health problems, loss of crop & not providing dust compensation to farmers. • Provision for Drinking Water Supply to villages • Employment opportunities for local people • Plantation in the region • Infrastructure Development in the region

Action plan as per MoEF&CC O.M. dated 30/09/2020:

Action Plan for implementation of activities as per MoEF & CC OM Dt: 30.09.2020							
S. No	**Physical activity and action plan**			**Year of implementation (Budget in Lakhs)**			**Total Expenditure (in Lakhs)**
	Name of the Activity		**Physical Targets**	**1st Year**	**2nd Year**	**3rd Year**	
1	Plantation	Plantation of native species & its maintenance at along the Halkundi- Vitlapurm road for a length of 15 Km	6000 Nos	2000 Saplings 2.83	2000 Saplings 2.83	2000 Saplings 2.84	8.50
2	Education	Renovation & construction of classrooms in Government School Buildings at Halkundi Village & Mincheri Village	2 Nos	1 Unit i.e., Halkundi 5.0		1 Unit i.e., Mincheri Village 5.0	10.00
		Construction toilets in Govt. schools i.e, Halkundi Village & Mincheri Village	2 Nos	1 Unit i.e., Halkundi 1.0	1 Unit i.e., Mincheri Village 1.0		2.00
		Providing teaching aids/books, Computers, library, Sports materials to schools	2 Nos	1 Unit i.e., Halkundi 2.00	-	1 Unit i.e., Mincheri Village 2.00	4.00
3	Infrastructure	Construction of 8 Nos of Rainwater Recharge structures around the bore wells village which are used for water supply to the villages to recharge groundwater table i.e Obulapuram, Neemakallu, Mincheri and Halkundi (Obulapural and Neemakallu Villages belongs to Andhra Pradesh State)	8 Nos at 4 Villages	4 Units i.e., Halkundi & Mincheri 1.50	4 Units i.e. Obulapuram & Neemakallu 1.50	-	3.00
4	Construction of artificial water pond (Mincheri RF)	Construction of artificial water pond in Mincheri Reserved forest & supply of water through tankers during summer season (Feb-May)	1 No	1 Unit i.e., Mincheri RF 2.0	-		2.00
5	Support for Agriculture	Construction of Farm Ponds in nearby villages i.e., Halkundi Village, Mincheri Village, Honnenahalli, Belagal & Honnenahalli Thanda	5 No's	2 Units i.e., Halkundi Village & Mincheri Village 2.4	2 Units i.e., , Belagal & Honnenahalli Thanda 2.4	1 Unit i.e., Honnenahalli Thanda 1.2	6.00

Action Plan for implementation of activities as per MoEF & CC OM Dt: 30.09.2020							
S. No	**Physical activity and action plan**			**Year of implementation (Budget in Lakhs)**			**Total Expenditure (in Lakhs)**
	Name of the Activity		**Physical Targets**	**1st Year**	**2nd Year**	**3rd Year**	
6	Health	Renovation & distribution of need based medicines, equipment's & furniture to Primary Health Centre at Halkundi Village	1 No	1 Unit i.e., Halkundi Village 3.50	-		3.50
		Conducting preventive health programmes on Women and children in the nearby villages i.e, Halkundi & Mincheri Village	2 No's	1 Unit i.e., Halkundi Village 0.50	-	1 Unit i.e., Mincheri 0.50	1.00
Total cost in Lakhs				**20.73**	**7.73**	**11.54**	**40.00**
Action Plan & Physical Target for issues raised in Public Hearing Held on 24.08.2021							
1	Pollution levels in the nearby Villages by surrounding industrial cluster is causing Health problems	M/s. PVSR Steel & Power Pvt. Ltd. has to undertake that, all the necessary APCEs will be installed to avoid dust pollution causing health impacts. However Medical Camps & Health check-ups will be carried out in the surrounding villages i.e., Halkundi Village, Mincheri Village, Honnenahalli, Honnenahalli Thanda & Belagallu	500 No's @ 5 Villages	2 Units i.e., 200 No's at Halkundi Village & Mincheri Village 8.0	1 Unit i.e., Honnenahalli for 100 No's 4.0	2 Units i.e., 200 No's at Honnenahalli Thanda & Belagallu 8.0	20.00
		Distribution of Fund to Sponge Iron Association Ballari for construction of Hospital near Honnenahalli Thanda	1 No	-	1 Unit 4.00	-	4.00
		Distribution of wheelchair, walking aid, hearing and vision aids, artificial limbs and 3-wheeler scooter/Scooty to Physically Challenged and handicap persons in nearby villages i.e Halkundi Village, Mincheri Village, Honnenahalli, Honnenahalli Thanda & Belagallu	15 No's	7 No's 2.50	8 No's 2.50	-	5.00
2	Provision for Drinking	PVSR Steels has proposed to make provision of drinking water facilities in Halkundi	4 No's	1 Unit at Halkundi Village	1 Unit at Mincheri	2 Units at Honnenahalli &	20.00

Action Plan for implementation of activities as per MoEF & CC OM Dt: 30.09.2020							
S. No	**Physical activity and action plan**			**Year of implementation (Budget in Lakhs)**			**Total Expenditure (in Lakhs)**
	Name of the Activity		**Physical Targets**	**1st Year**	**2nd Year**	**3rd Year**	
	Water Supply	Village, Mincheri Village, Honnenahalli & Honnenahalli Thanda				Honnenahalli Thanda	
				5.00	5.00	10.00	
3	Employment	Provision of 100 No of employment opportunities to local villagers i.e., Halkundi Village, Mincheri Village, Honnenahalli, Honnenahalli Thanda & Belagallu and providing training on innovative courses to Youth in local villages	300 No's	150 No's at Halkundi Village, Mincheri Village	150 No's at Honnenahalli Thanda, Honnenahalli & Belagallu	-	3.00
				1.50	1.50		
		Tailoring training programmes to women's & distribution of Tailoring machines 30 Numbers in nearby villages in the study area at Mincheri, Sanjeevarayanakote, Burnayakanahalli, Chirakunta, Halkundi Village, Mincheri, Belagal, Belagal Thanda & Ballari Rural area	30 No's	10 No's	10 No's	10 No's	3.00
				1.00	1.00	1.00	
5	Infrastructure Development	Desilting & renovation of lake bund in Halkundi	1 No	1 Unit at Halkundi Lake	-	-	5.00
				5.00			
		Total cost in Lakhs		**23**	**18**	**19**	**60.00**

34.2.14 The capital cost of the proposed project is Rs. 30.80 Crores and the capital cost for environmental protection measures is proposed as Rs. 5.0 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 0.674 Crores. The employment generation from the proposed project is 100 Nos Skilled, Semi-skilled and Un-skilled workers of will be taken for 3 shifts in a day from surrounding villages. The details of cost for environmental protection measures is as follows:

S. No.	Description of Item	Existing (in lakhs)		Proposed (in lakhs)	
		Capital Cost	Recurring Cost	Capital Cost	Recurring Cost
1.	**Air Pollution Control / Noise Managemen**	`			
	Air Pollution Control Equipment's such as ESP, Fume extraction, closed conveyor belt system and stack arrangements	-	-	150.00	15.00

S. No.	Description of Item	Existing (in lakhs)		Proposed (in lakhs)	
		Capital Cost	Recurring Cost	Capital Cost	Recurring Cost
	Continuous online monitoring for stack emissions	-	-	15.00	3.00
	Stack arrangements for DG set & other sources of emissions	-	-	2.00	1.00
	Water Sprinklers with truck mounted mist system	-	-	40.00	-
	Increase of Boundary Wall height	-	-	10.00	-
	Metallic slip seal to kiln inlet & outlets, closed wood system for collected of ESP dust, chutes for bag filters	-	-	10.00	2.00
	Provision of PPEs for workers, enclosures and barriers for attenuation of noise	-	-	15.00	6.00
2.	Water Pollution Control				
	Installation of STP	-	-	25.00	5.00
	Provision of garland drains and catch pit	-	-	7.00	1.00
	Provision of recharge pits	-	-	5.00	1.0
3.	Provision of additional sheds for storage of raw materials / finished products	-	-	15.00	-
4.	Traffic management and asphalting of internal roads	-	-	45.0	5.0
5.	Solid & hazardous waste management	-	-	7.00	4.0
6.	**Green belt development**	-	-	6.0	3.6
7.	**Conservation Plan for Schedule-I Species**	-	-	5.00	-
8.	**Provision of solar lighting as part of Energy Conservation measures**	-	-	5.00	1.00
9.	**Environmental Monitoring during construction phase**	-	-	3.00	6.80
10.	**Vacuum Cleaner Sweeping Machine**	-	-	5.0	-
11.	**Impervious floor for raw material storage**	-	-	11.0	-
12.	**Occupational Health Safety Centre**	-	-	15.0	13.00
13.	**Action Plan for implementation of activities as per MOEF&CC OM dt: 30.09.2020**	-	-	40.00	-
14	**Action Plan for issues raised during public hearing**	-	-	60.00	-
15	**Additional**	-	-	4.00	-
Total				**500.00**	**67.40**

34.2.15 Existing green belt has been developed in 0.81 ha area which is about 11 % of the total project area of 7.34 ha with total sapling of 2000 Trees (Plantation achieved recently). Proposed greenbelt will be developed in 1.61 ha which is about 22 % of the total project area. Thus total of 2.42 ha area (33 % of total project area) will be developed as greenbelt. A 10 m wide greenbelt, consisting of at least 3 tiers around plant boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 2000 saplings are already planted in an area of 0.81 Ha in the industry during FY 2021-22 and remaining 4050 saplings will be planted and

nurtured in 1.61 hectares in 1 year. Hence the total greenbelt area will be 2.42 Ha (33 % of the total area).

34.2.16 The proponent has reported that Earlier, KSPCB has issued closure order for the industry on 20.11.2009 and for which request has been submitted to KSPCB on 21.03.2023 for revoking the closure order to re-start the industry by new management.

Certified compliance report from Regional Office

34.2.17 Environmental officer, KSPCB, Regional Office Ballari inspected the site on 24.01.2023 and made the following observations:

Infrastructure facilities available at site;

Sl.No	Particulars	Capacity	Remarks
1	Rotary Kiln 1 x 50 TPD	Chimney of height 40 m AGL with Heat Exchange and ESP	Machinery is not used for long period and is in rusted condition and needs maintenance
2	Coal Crushing and Screening System	Chimney of height 30 m AGL with Bag filters	
3	Cooler Discharge	Chimney of height 30 m AGL with Bag filters	
4	Iron ore crushing and screening system	Chimney of height 30 m AGL with Bag filters	
5	Intermediate Bin	Chimney of height 30 m AGL with Bag filters	
6	DG Set 380 KVA	Chimney provided with 10 m ARL	Needs Maintenance

Other observations:

1. The Plant was not in operation and the machinery was lying unused over a long period of time. The machinery needs maintenance.
2. Presently there is one Rotary Kiln of capacity 1 x 50 TPD (established by M/s. Banashankari Steel & Alloy Private Limited) with chimney of height 40 m with Heat exchanger and ESP as APC measure. The project proponent (M/s. PVSR Steel and Power Private Limited) has proposed to upgrade the existing 50 TPD Rotary Kiln to 100 TPD and add new Rotary Kiln with capacity 1 X 100 TPD (2 X 100 TPD) and Captive Power Generation Plant of capacity 2 MW.
3. Provided Raw material storage shed. But no raw material was available at the time of inspection.
4. Provided compound wall along with the boundary of the industry.
5. Provided Weigh Bridge, Laboratory and Labor rooms facility within the premises. But the same was not in use.
6. Conveyors are closed with semicircular MS sheets.
7. Housekeeping is good, there is a scope for future improvement.
8. The project proponent in the last 3 years has planted about 2000 saplings within the plant premises to develop greenbelt.

34.2.18 M/s. PVSR Steel & Power Pvt. Ltd had earlier made an online application vide proposal no. IA/KA/IND/138176/2020 dated 04.10.2021. The proposal was considered in 46th meeting of

Re-constituted EAC (Industry-1) held on 11.10.2021, and was deferred for want of additional information. The observations and recommendation is given as below:

Deliberations by the Committee (EAC during 11th October, 2021)

The Committee noted the following:

1. As per the public hearing proceedings, 38 people participated in the hearing. Out of 38, 34 people have opposed the proposed project on account of pollution and health concerns prevailing in the area. It has been recorded at the end of public hearing proceedings that "As almost all the people present at the Public Hearing expressed their opinion against the setting up of the industry. The Deputy Commissioner opines that no new industries may be allowed to be set up in this-area as existing pollution levels are at saturation levels and new units will only aggravate the situation leading to frequent law and order disturbance".
2. In this regard, PP informed to the EAC that in the written submissions as part of the public consultation proceedings several people have supported the project activity. However, the said written submissions have not been made available by the proponent.
3. Particulate matter emission level in the ambient air is reported to be exceeding the NAAQS. No explanation is made available by the PP in this regard.
4. Action plan to address the issues raised during public hearing is not in conformity to the MoEF&CC O.M. dated 30/09/2020.
5. Status of approval of Wildlife Conservation Plan for conservation of Schedule I species and approval from the Competent Authority for use of tertiary treated water in the proposed project has not been made available.

Recommendations of the Committee (EAC during 11th October, 2021)

Proposal recommended to be returned in its present form to address the shortcomings enumerated at para above.

The Ministry may seek comments/views from the State Government of Karnataka on the existing industries, pollution & health concerns and issues related to the law and order prevailing in the area for taking appropriate view on the proposal under consideration keeping in view the aforesaid comments of the Dy. Commissioner as mentioned in para above.

34.2.19 Based on the EAC recommendations, MOEFCC vide letter no. J-11011/42/2020-IA.II(I) Dt: 27.10.2021 directed the State Government to submit the comments / views on existing industries, pollution & health concerns and issues related to the law and order prevailing in the area for taking appropriate view on the proposal under consideration keeping in view of the aforesaid comments of the Dy. Commissioner.

34.2.20 In view of the above, the State Government of Karnataka has examined the issue and vide letter no. FEE 275 EPC 2021 submitted the report and Compliance to the observations of Ministry is as follows:

Sl. No	Observation	Compliance
1.	Details of	There are nine other sponge iron plants surrounded by PVSR Steel and

Sl. No	Observation	Compliance
	existing industries	Power Pvt. Ltd. in Halkundi Industrial Cluster, they are M/s VRKP Sponge & Power Pvt. Ltd., M/s Popuri Steel Ltd., M/s Supra Steel & Power Pvt. Ltd., M/s Rangineni Steel, M/s Bellary Ispat, M/s Balaji Swamy premimum Steels Pvt. Ltd., M/s Shirdi Sai Steels, M/s Venkateshwara Sponge & Power Pvt. Ltd. and M/s Yashaswi Steels and Alloys Pvt. Ltd. Out of nine industries, seven industries are operative.
2.	Pollution & health concerns	The air quality monitoring and stack monitoring conducted by KSPCB with respect to PM10 and PM2.5 is within the limits specified for NAAQM standards in most of the cases except few spikes. The air quality index in the areas is also varying from Good to Satisfactory to Moderate. The reason for the above scenario is due to transportation of vehicles on National Highway and Ballari Ring Road, Movement of Vehicles carrying raw materials, non asphalting of networking of words and non operation of APCEs during night hours. There are no direct correlating factors for relating the community health to Air Quality in the area as the symptoms observed i.e., Cough and Chronic Obstructive Pulmonary Disease (COPD) is common and industrial setting may one of the reasons along with many other related factors.
3.	Law and order prevailing in the area	The State Government of Karnataka has examined the issue and sought the views of Dy. Commissioner, Ballari. He submitted that, view from SEIAA, Karnataka may be obtained for final decision in this regard. Hence, committee constituted under the Chairmanship of Chairman, SEIAA. The said committee visited the site and held discussion with District Authorities, Ballari. Further, the committee submitted the report to Government with the following recommendation that the project proponent may be advised to implement the following. 1) Implement covered storage areas for iron ore to prevent it being air borne which may also be one of the reasons for factors leading to prevailing air quality in the area. This may be extended to all such industries in the cluster. 2) The Coal from the Coal stack area (covered) shall be conveyed to the coal feed section through mechanical belt conveyor system. 3) The project proponent may also be advised to do plantation all along the periphery of the project site and internal areas of the plant with large canopy vegetation.

34.2.21 M/s. PVSR Steel & Power Pvt. Ltd. has again applied for EC vide Proposal no. IA/KA/IND1/420560/2023 Dated 04.05.2023 with reply to the points raised during the 46th meeting of Re-constituted EAC (Industry-1) held on 11.10.2021 as follows:

Sl. No	ADS Point	Reply / Response of PP
1	As per the public hearing proceedings, 38 people participated in the hearing. Out of 38, 34 people have opposed the proposed project on account of pollution and health concerns prevailing in the area. It has been recorded at the end of public hearing proceedings that "As almost all the people present at the Public Hearing expressed their opinion against the setting up of the industry. The Deputy Commissioner opines that no new industries may be allowed to be set up in this-area as existing pollution levels are at saturation levels and new units will only aggravate the situation leading to frequent law and order disturbance".	MoEFCC vide letter Dt: 27.10.2021 directed the Government of Karnataka to comments / views on the existing industries, pollution and health concerns and issues related to the law and order prevailing in the area for taking appropriate view on the proposal under consideration keeping in the view of the comments of the Deputy Commissioner. Government of Karnataka after careful examination of the matter vide letter Dt: 21.01.2023 was of the opinion that, the said proposed Sponge Iron Plant and Captive Power Generation Plant can be established with the following mitigation measures; a) Implement covered storage areas for iron ore to prevent it being air borne which may also be one of the reasons for factors leading to prevailing air quality in the area. This may be extended to all such industries in the cluster. b) The Coal from the Coal stack area (covered) shall be conveyed to the coal feed section through mechanical belt conveyor system. c) The project proponent may also be advised to do plantation all along the periphery of the project site and internal areas of the plant with large canopy vegetation. In view of the above, M/s PVSR Steel and Power Pvt. Ltd. is hereby agreed to implement the above conditions and the same has been incorporated in the Revised EIA Report.
2	In this regard, PP informed to the EAC that in the written submissions as part of the public consultation proceedings several people have supported the project activity. However, the said written submissions have not been made available by the proponent.	All the Written submissions as part of Public Consultation are submitted along with Revised EIA Report.
3	Particulate matter emission level in the ambient air is reported to be exceeding the NAAQS. No explanation is made available by the PP in this regard.	The maximum concentrations of PM_{10} at Project site was recorded as 78 µg/m^3 and whereas in the study area the average concentrations of PM_{10} was observed to be 106.80 µg/m^3. • The project site is surrounded by cluster of Sponge Iron industries and Tumati-Obalapuram Iron Ore mines. • Due to movement of uncovered Trucks carrying raw materials and finished products through un-asphalted Halkundi-Vithalapuram Road leads to slightly increase in background levels of PM_{10} in the study area. • Transportation of vehicles on the Ballari-Bangalore National highway and Ballari Ring Road also contribute to air pollution in the industrial area. • The increase in concentration PM during monitoring period was slightly higher due to temperature inversion effects. • The existing sponge iron industries in the cluster were operating at a smaller scale with Bag filter as APCE and now

Sl. No	ADS Point	Reply / Response of PP
		they are upgrading with expansion of capacity along with ESP as APCE. • Government of Karnataka proposed to upgrade the existing Halkundi-Vithalapuram Road as 'asphalted / concrete' road. • Plantation along the Halkundi-Vithalapuram Road has proposed under CER activities.
4	Action plan to address the issues raised during public hearing is not in conformity to the MoEF&CC O.M. dated 30/09/2020.	Revised action plan in conformity to the MoEF&CC O.M. dated 30/09/2020 to address the issues raised during public hearing has been submitted along with Revised EIA Report**.**
5	Status of approval of Wildlife Conservation Plan for conservation of Schedule I species and approval from the Competent Authority for use of tertiary treated water in the proposed project has not been made available.	The Deputy Conservator of Forests, Ballari Forest Division, Karnataka Forest Department vide letter Dt: 09.01.2023 recommended the Conservation Plan for Schedule – I Species. Permission Letter for supply of Tertiary Treated Water obtained from Commissioner, Ballari Municipal Corporation on 18.01.2023**.**

34.2.22 Based on the above submission of PP, the proposal has been considered during 34th meeting of the EAC for Industry-I sector held on 31st May, 2023. The deliberations and recommendations of EAC are as follows:

Written representations:

34.2.23 During the meeting, based on the deliberations made by the EAC, the project proponent through email dated 31.05.2023 submitted the following information:

- Revised Contour map showing with Bench mark, Road network and drainage network along road side with drainage flow, disposal of drainage flow at lowest point with invert level
- Revised Greenbelt Map showing existing Green belt and proposed Green Belt with its % against plot area.
- Revised Engineering Layout Map

Deliberations by the Committee

34.2.24 The Committee noted the following:

1. The instant proposal for refurbish & upgradation of existing 1x50 TPD kiln to 1x100 TPD preheater kiln and establishment of new 1 x 100 TPD Kiln for manufacturing of 200 TPD Sponge Iron along with 2 MW Captive Power Plant for generation of power by utilizing waste heat for production of 0.066 Million Tons Per Annum (MTPA) / 66000 TPA.
2. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project

Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.

3. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
4. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
5. M/s. PVSR Steel & Power Pvt. Ltd. is an existing Shut-down sponge iron industry having 1x50 TPD Kiln for manufacturing of sponge iron, earlier the plant was in the name of M/s. Banashankari Steels & Alloys Pvt. Ltd. & the earlier management was obtained CFE for existing 50 TPD sponge iron plant on 22.08.2007 vide file No. KSPCB/EO (BLY)/DEO/AEO-1/CFE/MR/2007-08/1181 and shut down due to financial glitches during 2012. Currently it is non-operating industry. The new management of the M/s. PVSR Steel & Power Pvt. Ltd. purchased the entire plant through SBI Bank and now proposed for Refurbish & upgradation of existing 1x50 TPD kiln to 1x100 TPD preheater kiln and establishment of new 1 x 100 TPD kiln for manufacturing of 200 TPD Sponge Iron along with 2 MW Captive Power Plant. Further the industry had obtained Certified Inspection Report for the existing 50 TPD Sponge Iron Industry.
6. The EAC noted that the following chronology w.r.t. the instant proposal:
    - M/s. PVSR Steel & Power Pvt. Ltd had earlier made an online application vide proposal no. IA/KA/IND/138176/2020 dated 04.10.2021. The proposal was considered in 46th meeting of Re-constituted EAC (Industry-1) held on 11.10.2021, and was deferred for want of additional information as detailed in para 34.2.18 above.
    - Based on the EAC recommendations, MOEFCC vide letter no. J-11011/42/2020-IA.II(I) Dt: 27.10.2021 directed the State Government to submit the comments / views on existing industries, pollution & health concerns and issues related to the law and order prevailing in the area for taking appropriate view on the proposal under consideration keeping in view of the aforesaid comments of the Dy. Commissioner.
    - In view of the above, the State Government of Karnataka has examined the issue and vide letter no. FEE 275 EPC 2021 submitted the report and Compliance to the observations of Ministry as detailed in para 34.2.20 above.
    - M/s. PVSR Steel & Power Pvt. Ltd. has again applied for EC vide Proposal no. IA/KA/IND1/420560/2023 Dated 04.05.2023 with reply to the points raised during the 46th meeting of Re-constituted EAC (Industry-1) held on 11.10.2021 as detailed in para 34.2.21 above.

7. Total revised project land is 7.35 ha (18.15 acres) which is under the possession of the company. Out of 7.35 ha, 4.9 ha is already converted to industrial land use and remaining land of 2.45 ha is under process of conversion to industrial purpose.
8. The nearest human settlement from the site is Halkundi Village located at a distance of 1.35 Kms in the NE direction of the project site. Also Ballari RF is at a distance of 0.93 Km in SW of project site.
9. Halkundi Lake (1.43 km,NE), Tungabhadra High Level Canal (4.30 km, NE) and Allipura Reservoir (8.60 km, NW) exists within the study area of 10 km from the project site. The EAC is of the opinion that water bodies shall not be disturbed. Mitigation measures w.r.t. safeguarding the water bodies shall be implemented.
10. The water requirement for the proposed project is estimated as 160 m^3/day, out of which 5 m^3/day of fresh water requirement will be obtained from the Bore well for domestic operations and the remaining 155 m^3/day will be met from Ballari City Municipal Corporation for industrial operations.
11. The PP submitted that existing green belt has been developed in 0.81 ha area which is about 11 % of the total project area of 7.34 ha with total sapling of 2000 Trees (Plantation achieved recently). Proposed greenbelt will be developed in 1.61 ha which is about 22 % of the total project area. Thus total of 2.42 ha area (33 % of total project area) will be developed as greenbelt. Total no. of 2000 saplings are already planted in an area of 0.81 Ha in the industry during FY 2021-22 and remaining 4050 saplings will be planted and nurtured in 1.61 hectares in 1 year. Hence the total greenbelt area will be 2.42 Ha (33% of the total area). The EAC deliberated on the greenbelt action plan and opined that greenbelt remaining greenbelt shall be completed in the coming monsoons of 2023.
12. The Committee has found that the baseline data and revised incremental GLC due to the proposed project and observed that PM10 and PM2.5 values are recorded very high. The EAC opined that PP shall strictly implement the mitigation measures submitted to minimise the same.
13. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
14. The Committee also deliberated on the public hearing issues along with action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
15. Indian Peafowl and Shikra are Schedule-I Species recorded in the study area of the project site. As reported, Conservation Plan has been prepared with an allotted budget of Rs. 5 Lakhs & submitted to Karnataka Forest Dept., Ballari which was approved by DCF, Ballari on 09.01.2023 & recommended for approval to CCF, Ballari.
16. The Committed deliberated in detail the submission of State Government of Karnataka and the submission of PP to the queries raised by the previous Committee in the earlier application and found it satisfactory.
17. The EAC also deliberated on the submitted written representation of project proponent and found it satisfactory.
18. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and

accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.

19. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

Recommendations of the Committee

34.2.25 In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for grant of Environment Clearance **subject to uploading the written submission on portal** under the provisions of EIA Notification, 2006 subject to stipulation of following specific conditions and general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 based on project specific requirements:

A. <u>Specific conditions:</u>

(i) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

(ii) The PP shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.

(iii) The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.

(iv) PP shall commence the project activity only after total conversion of land for industrial purpose from the Competent Authority.

(v) PP shall strictly implement the additional Environmental safe guards as proposed to address the emissions due to high AAQ values.

(vi) The nearest human settlement from the site is Halkundi Village located at a distance of 1.35 Kms in the NE direction of the project site. Also Ballari RF is at a distance of 0.93 Km in SW of project site. Project Proponent shall prepare and implement an action plan for environmental safeguard measures to minimise the impact on these ESA's. The company shall also include Halkundi Village in its environmental monitoring programme.

(vii) Halkundi Lake (1.43 km,NE), Tungabhadra High Level Canal (4.30 km, NE) and Allipura Reservoir (8.60 km, NW) exists within the study area of 10 km from the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its

flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.

(viii) The water requirement of 160 m^3/day, shall be met from the Ballari City Municipal Corporation (155 m^3/day) and from the Bore well (5 m^3/day) for domestic operations. After obtaining necessary permission from the Competent Authority(ies).

(ix) Three tier Green Belt shall be developed in atleat 33% of project area in in the coming monsoons of 2023 with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy alongwith windshield inside the plant premises to act as green barrier for air pollution & noise levels towards the Halkundi village. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.

(x) Sensors for carbon monoxide gas with alarm system must be installed at strategic locations in the Plant.

(xi) All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 amounting to Rs. 0.60 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.

(xii) The PP shall undertake village adoption and formulate Village Adoption program consisting of need-based community development activities, to develop them into model villages.

B. <u>General Conditions</u>

I. Statutory compliance:

i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

II. Air quality monitoring and preservation

i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 02 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

ii. The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM_{10} and $PM_{2.5}$ in reference to PM emission, and SO_2 and NOx in reference to SO_2 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.

iii. 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.

iv. Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.

v. 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.

vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.

vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.

viii. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.

ix. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.

x. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.

xi. Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.

xii. The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.

xiii. Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.

xiv. Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.

xv. The particulate matter emissions from the process stacks shall be less than 30 mg/Nm^3 and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.

xvi. Following additional arrangements to control fugitive dust shall be provided:

a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.
b. Proper covered vehicle shall be used while transport of materials.
c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.

xvii. During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.

xviii. The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m^3, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.

III. Water quality monitoring and preservation

i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 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.

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. 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.

iv. Water meters shall be provided at the inlet to all unit processes in the plants.

v. The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.

vi. The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.

vii. All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.

viii. Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.

ix. Air Cooled condensers shall be used in the captive power plant.

IV. Noise monitoring and prevention

i. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, 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.

iii. PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.

V. Energy Conservation measures

i. 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;
ii. Provide LED lights in their offices and residential areas.
iii. The project proponent shall provide waste heat recovery system on the DRI Kilns.
iv. The dolochar generated shall be used for power generation.
v. Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.
vi. The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard.

VI. Waste management

i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
ii. Kitchen waste shall be composted or converted to biogas for further use.
iii. The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
iv. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.

VII. Green Belt

i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
ii. Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.
iii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

VIII. 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 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.
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, creche 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.

IX. Environment Management

i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
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. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.

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. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented

vi. 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.

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 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. The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.

xi. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.

xii. 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).

xiii. 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.

xiv. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

xv. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

xvi. 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.

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.

***

Agenda No. 34.3

34.3 Expansion of Manufacturing of Ferro Alloys from 48,000 TPA to 64,000 TPA by M/s Hira Power and Steels Limited, located at Khasra No. 156, 500, 508, 509, 510, 511/1, 511/2, 512/1, 512/2,513/1- 513/5 and others Urla Industrial Area, Raipur, Chhattisgarh - Consideration of Environmental Clearance.

[Proposal No. IA/CG/IND1/425728/2023; File no. IA-J-11011/836/2008-IA-II(IND-I)]
[Consultant: Pollution and Ecology Control Services; Valid Upto: 09/06/2023]

34.3.1 Hira Power and Steel Limited has made an online application vide proposal no. IA/CG/IND1/425728/2023 dated 19.05.2023 along with copy of EIA report and Forms (Part A, B and C) and certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(a), Metallurgical industries (ferrous & non-ferrous) and 1 (d) Thermal Power Plants under Category "A" of the schedule of the EIA Notification, 2006 and attracts general condition due to Urla industrial area being at 7 Km (NE) from Siltara Industrial area and 6.9 Km (SSE) from Raipur which are CPA and being appraised at Central Level.

34.3.2 Name of the EIA consultant: M/s. Pollution and Ecology Control Services [List of ACOs with their Certificate / Extension Letter no. QCI/NABET/ENV/ACO/23/2732; valid upto 06.09.2023, as on June 2, 2023].

Details submitted by Project proponent

34.3.3 The details of the ToR are furnished as below:

Date of Application	Consideration	Details	Date of Accord	ToR Validity
21.10.2021	Standard ToR was issued by MoEF&CC	Terms of Reference	27.10.2021	26.10.2025

34.3.4 The project of Hira Power and Steel Limited located in Khasra No. 156, 500, 508, 509, 510, 511/1, 511/2, 512/1, 512/2,513/1- 513/5 and others Urla Industrial Area, Raipur Tehsil, Raipur District, Chhattisgarh State is proposed to increase the production of Ferro Alloy by improvement in efficiency and using better quality of raw material from 48000 TPA to 64000 TPA without change in plant and machinery.

34.3.5 The proposal was considered during 34th meeting of the EAC for Industry-I sector held on 31st May, 2023. The deliberations and recommendations of EAC are as follows:

Deliberations by the Committee

34.3.6 The Committee noted the following:

1. The EAC deliberated on the certified compliance report of IRO dated 09.01.2023 wherein IRO has made observation regarding installation of Continuous Ambient Air Quality Monitoring Stations (CAAQMS). Also, PP had submitted an undertaking to IRO for installation of 01 Nos. of CAAQMS within 3 months. However PP reported that the same has not been accomplished yet. The EAC noted that as per the undertaking the time period of 3 months has lapsed. In this regard, the EAC after deliberation on the whole proposal in-principle agreed to recommend the proposal, however, advised the PP/Consultant to reappear before the EAC for final recommendation only after installations of CAAQMS as directed by the IRO along with the closure report from IRO in this regard.
2. In view of above, the PP requested the Committee to allow to reappear with the revised information/ clarification to the points deliberated during appraisal.

Recommendations of the Committee

34.3.7 In view of the foregoing and after detailed deliberations, the committee recommended to **defer the proposal** due to certain deficiencies in the proposal and sought requisite information on the points referred at para no. 34.3.6 above. The proposal shall be considered after submission of requisite information and updating the Report on Parivesh Portal.

***

Agenda No. 34.4

34.4 Proposed Integrated Cement Project - Clinker (2 x 3.5 Million TPA), Cement (2 x 3.5 Million TPA), CPP (2 x 30 MW), WHRS (2 x 18 MW) and D.G. Set (2 x 6 MW) by M/s. UltraTech Cement Ltd., located at Villages: Basawa & Turkani Johdi (Khirod), Tehsil: Nawalgarh, District: Jhunjhunu, Rajasthan -Consideration of Environmental Clearance.

[Proposal No. IA/RJ/IND1/426613/2023; File No. IA-J-11011/307/2019-IA-II-(IND-I)]
[Consultant: JM EnviroNet Pvt. Ltd.; Valid upto 08.07.2023]

34.4.1 M/s. UltraTech Cement Ltd. has made an online application vide proposal no.: IA/RJ/IND1/426613/2023 dated 18th May, 2023 along with copy of EIA/EMP report, in prescribed Form 2 and certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(b) Cement Plants and 1(d) Thermal Power Plants under Category "A" of the schedule of the EIA Notification, 2006 and appraised at Central Level.

34.4.2 Name of the EIA consultant: M/s. J.M. EnviroNet Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2023/SA 0172; Valid up to 07.08.2023, as on June 2, 2023].

Details submitted by Project proponent

34.4.3 The details of the ToR are furnished as below:

Date of Application	Consideration	Details	Date of Accord	ToR Validity
20.09.2019	12th meeting of Re-Constituted EAC held on 21st Oct., 2019	Terms of Reference	11.12.2019	10.12.2023

34.4.4 The project of M/s. UltraTech Cement Ltd. is located in Villages: Basawa & Turkani Johdi (Khirod), Tehsil: Nawalgarh, District: Jhunjhunu Rajasthan State is for proposed Integrated Cement Project - Clinker (2 x 3.5 Million TPA), Cement (2 x 3.5 Million TPA), CPP (2 x 30 MW), WHRS (2 x 18 MW) and D.G. Set (2 x 6 MW).

34.4.5 Environmental Site Settings:

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td>i.</td><td>Total land</td><td>The total land area required for the proposed project is 164.69 ha {Project area - 159.74 (Plant & Colony/Guest House) + 4.95 ha belt conveyor}; out of which 0.05 ha is Government land and 164.64 ha is Private land.</td><td>Land use: Private Agricultural land and Government waste land and same will be converted into industrial use after introduction of the project.</td></tr>
<tr><td>ii.</td><td>Land acquisition details as per MoEF&CC O.M. dated 7/10/2014</td><td>Out of total area i.e., 164.69 ha; 92.82 ha land under possession of company and for 53.0 ha land consent has been taken from landowners. Land acquisition of remaining land i.e., 18.87 ha is under process.</td><td>-</td></tr>
<tr><td>iii.</td><td>Existence of habitation & involvement of R&R, if any.</td><td>Plant Site: 81 project affected families are present within the project site out of which 78 have Land and Homestead and 03 have only Land in the project site.
Study Area:
<table>
<tr><th>Habitation</th><th>Distance (km)</th><th>Direction</th></tr>
<tr><td>Turkani Johadi</td><td>Adjacent</td><td>SW</td></tr>
<tr><td>Basawa</td><td>1.5 Km</td><td>East</td></tr>
<tr><td>Khirod</td><td>~ 1.9 Km</td><td>South</td></tr>
<tr><td>Kemri Ki Dhani</td><td>~ 2.1 Km</td><td>WSW</td></tr>
<tr><td>Milo Ka Bas</td><td>~ 2.7 Km</td><td>North west</td></tr>
</table></td><td>R & R is applicable. Rs. 14.77 Crores budget has been allocated for R & R of project affected families.</td></tr>
</table>

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>Dhani Kanakawali</td><td>~ 1 Km</td><td>North East</td></tr>
</table>
Total 50 villages are present in 10 km radius of the study area.
</td><td></td></tr>
<tr><td>iv.</td><td>Latitude and Longitude of all corners of the project site</td><td>
<table>
<tr><th>Point</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1.</td><td>27°46'48.31"N</td><td>75°17'50.14"E</td></tr>
<tr><td>2.</td><td>27°46'40.65"N</td><td>75°17'49.87"E</td></tr>
<tr><td>3.</td><td>27°46'40.46"N</td><td>75°17'43.26"E</td></tr>
<tr><td>4.</td><td>27°46'32.95"N</td><td>75°17'42.83"E</td></tr>
<tr><td>5.</td><td>27°46'32.48"N</td><td>75°17'37.21"E</td></tr>
<tr><td>6.</td><td>27°46'27.04"N</td><td>75°17'37.74"E</td></tr>
<tr><td>7.</td><td>27°46'26.57"N</td><td>75°17'39.95"E</td></tr>
<tr><td>8.</td><td>27°46'18.23"N</td><td>75°17'40.48"E</td></tr>
<tr><td>9.</td><td>27°46'13.52"N</td><td>75°17'42.02"E</td></tr>
<tr><td>10</td><td>27°46'3.75"N</td><td>75°17'42.61"E</td></tr>
<tr><td>11</td><td>27°46'2.24"N</td><td>75°18'5.97"E</td></tr>
<tr><td>12</td><td>27°46'3.65"N</td><td>75°18'20.75"E</td></tr>
<tr><td>13</td><td>27°46'7.58"N</td><td>75°18'32.40"E</td></tr>
<tr><td>14</td><td>27°46'22.41"N</td><td>75°18'29.67"E</td></tr>
<tr><td>15</td><td>27°46'24.04"N</td><td>75°18'37.19"E</td></tr>
<tr><td>16</td><td>27°46'32.30"N</td><td>75°18'35.73"E</td></tr>
<tr><td>17</td><td>27°46'31.98"N</td><td>75°18'32.75"E</td></tr>
<tr><td>18</td><td>27°46'40.30"N</td><td>75°18'32.02"E</td></tr>
<tr><td>19</td><td>27°46'40.11"N</td><td>75°18'19.97"E</td></tr>
<tr><td>20</td><td>27°46'37.18"N</td><td>75°18'19.90"E</td></tr>
<tr><td>21</td><td>27°46'37.21"N</td><td>75°18'16.85"E</td></tr>
<tr><td>22</td><td>27°46'38.17"N</td><td>75°18'16.93"E</td></tr>
<tr><td>23</td><td>27°46'38.46"N</td><td>75°18'11.21"E</td></tr>
<tr><td>24</td><td>27°46'35.72"N</td><td>75°18'11.02"E</td></tr>
<tr><td>25</td><td>27°46'34.87"N</td><td>75°18'8.04"E</td></tr>
<tr><td>26</td><td>27°46'34.99"N</td><td>75°18'5.24"E</td></tr>
<tr><td>27</td><td>27°46'34.79"N</td><td>75°18'2.31"E</td></tr>
<tr><td>28</td><td>27°46'47.59"N</td><td>75°18'1.85"E</td></tr>
<tr><td>29</td><td>27°46'3.51"N</td><td>75°18'10.93"E</td></tr>
<tr><td>30</td><td>27°45'57.66"N</td><td>75°18'10.70"E</td></tr>
<tr><td>31</td><td>27°45'57.71"N</td><td>75°18'6.36"E</td></tr>
</table>
</td><td>-</td></tr>
<tr><td>v.</td><td>Elevation of the project site</td><td>434 m to 443 m above mean sea level.</td><td>-</td></tr>
<tr><td>vi.</td><td>Involvement of Forest land if any.</td><td>No Forest Land is involved in the project site.</td><td>-</td></tr>
<tr><td>vii.</td><td>Water body (Rivers, Lakes, Pond, Nala,</td><td>Plant site: No water body exist within the project site.</td><td>-</td></tr>
</table>

S. No.	Particulars	Details	Remarks
	Natural Drainage, Canal etc.) exists within the project site as well as study area	**Study area:** Udaipur Lohagarh Nadi (8.0 km in NE direction)	
viii.	Existence of ESZ/ ESA/ national park/wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area.	**Study Area** • No National Park / ESZ / ESA / Wildlife Sanctuary / Biosphere Reserve / Tiger Reserve / Elephant Reserve etc. fall within 10 km study area. Therefore, NBWL approval is not applicable. • **List of Reserved and protected forests:** 1. Kolida Protected Forest (8.5 km in WNW direction) 2. Kushalpura Protected Forest (9.5 km in South direction)	-

34.4.6 The unit configuration and capacity of proposed project is given as below:

S. No.	Plant Equipment / Facility	Proposed Unit (Phase - I)		Proposed Unit (Phase - II)		Final (Phase - I + Phase - II)	
		Configuration	Capacity	Configuration	Capacity	Configuration	Capacity
1.	Clinker	Kiln - 10000 TPH	3.5 Million TPA	Kiln - 10000 TPH	3.5 Million TPA	Kiln - 2 x 10000 TPH	2 x 3.5 Million TPA
2.	Cement	Cement Mill - 2 x 275 TPH	3.5 Million TPA	Cement Mill - 2 x 275 TPH	3.5 Million TPA	Cement Mill - 4 x 275 TPH	2 x 3.5 Million TPA
3.	CPP	Boiler - 125 TPH	30 MW	Boiler - 125 TPH	30 MW	Boiler - 2 x 125 TPH	2 x 30 MW
4.	WHRS	18 MW	18 MW	18 MW	18 MW	2 x 18 MW	2 x 18 MW
5.	D.G Sets	6 MW	6 MW	6 MW	6 MW	2 x 6 MW	2 x 6 MW

34.4.7 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

S. No	Raw Material	Requirements (Million TPA)			Source	Approx. Distance/ Mode of Transportation
		Phase - I	Phase - II	Total		
1.	Limestone	5.25	5.25	10.5*	Captive Limestone Mine	1.0 km by Covered Belt Conveyor
2.	Red Ochre/ Iron ore/ Laterite	0.14	0.14	0.28	Narayani, Chittorgarh& Bhilwara District of Rajasthan	270 - 475 km by Road and Rail
3.	Gypsum	0.18	0.18	0.36	FCI (Khal Mines) & Rajasthan State Mines and Minerals (RSMM), Bikaner; Rajasthan	280 - 480 km Road and Rail

S. No	Raw Material	Requirements (Million TPA)			Source	Approx. Distance/ Mode of Transportation
		Phase - I	Phase - II	Total		
					State Mines and Minerals (RSMM), Nagore	
4.	Fly ash	1.23	1.23	2.46	CPP, Jhajjar Power Plant (JPL)& Aravali Power Company Private Limited (APCPL) (NTPC), Jhajjar; RGTPP, Hissar, Suratgarh/Kota	145 - 250 km by Road
*Note: The project will be implemented in two phases. The company has sufficient limestone to operate the first phase, and during the implementation of the second phase, the company will expand the production capacity of the captive limestone mine.						

34.4.8 The total water requirement is 1800 KLD (Phase - I: 1150 KLD and Phase - II: 650 KLD); which will be sourced from Ground Water. NOC for ground water withdrawal of 2000 KLD was obtained from CGWA vide letter No. CGWA/NOC/IND/REN/1/2023/7717 dated 1st May, 2023 which is valid up to 21st May, 2025.

34.4.9 Power requirement is 80 MW (Phase - I: 40 MW & Phase - II: 40 MW); which will be sourced from the Proposed CPP, WHRS and Rajasthan State Electricity Board and D.G. Set (plant lighting in case of emergency).

34.4.10 Baseline Environmental Studies:

Period	***Summer Season*** **(March to May, 2022)**
AAQ parameters at 08 locations (Min and Max)	• $PM_{2.5}$ – 29.4 to 49.5 µg/m^3 • PM_{10} - 47.2 to 80.4 µg/m^3 • SO_2 - 5.6 to 13.2 µg/m^3 • NO_x - 9.6 to 20.9 µg/m^3 • CO - BDL to 0.78 mg/m^3
Incremental GLC level	• PM - 2.797 µg/m^3 (Within Plant Site in SE Direction) • SO_2 - 3.499 µg/m^3 (Level at ~400 m in SE Direction) • NO_x - 3.979 µg/m^3 (Level at ~430 m in SE Direction) • CO - 0.00132 mg/m^3 (Within Plant Site in SE Direction)
Ground water quality at 08 location	• pH - 7.16 to 7.8 • Total Hardness - 153.4 to 262.3 mg/l • Chlorides - 94.9 to 212.4 mg/l • Fluoride - 0.27 to 0.98 mg/l • Heavy Metals - Iron as Fe: 0.09 to 0.26 mg/l
Surface water quality at 01 locations	There is only one surface water body exist within 10 km radius study area from the project site i.e., Udaipur Lohagarh Ki Nadi (~8.0 km in NE direction). Surface water sample could not be collected, as the water body is seasonal water body and it was found dry during the baseline study period.

<table>
<tr><td>Noise levels Leq (Day and Night)</td><td>50.1 to 54.8 Leq dB (A) for day time and 40.7 to 44.7 Leq dB (A) for the night time.</td></tr>
<tr><td>Traffic assessment study findings</td><td>
✓ Traffic study has been conducted SH - 8 which is approx. 8.0 km in NE direction from the project site and 25 - B which is approx. 2.0 km in East for the project site.
✓ Transportation of raw material, fuel & finished product will be done as per details given below:
✓ Limestone - via Covered belt Conveyor from Captive Limestone Mine
✓ Fly ash – 100 % by road
✓ Gypsum (Mineral, Chemical & Imported) - 50% by road & 50 % by rail
✓ Red Ochre/ Iron ore/ Laterite - 50 % by road & 50 % by rail
✓ Imported Coal /Indian - Domestic Coal (Cement Plant & CPP) - 50 % by road & 50 % by rail
✓ Petcoke (Imported / Indian) (Cement Plant) - 50 % by road & 50 % by rail
✓ Clinker - 50 % by road & 50 % by rail
✓ Cement - 50 % by road & 50 % by rail
Existing PCU and LOS of SH - 8 and 25 - B is given below:
<table>
<tr><th>Road</th><th>V (Volume in PCU/hr.)</th><th>C (Capacity in PCU/hr.)</th><th>Existing V/C Ratio</th><th>LOS</th></tr>
<tr><td>SH - 8</td><td>300.3</td><td>3600*</td><td>0.08</td><td>A</td></tr>
<tr><td>25 - B</td><td>212.4</td><td>1500*</td><td>0.14</td><td>A</td></tr>
</table>
* Capacity as per IRC: 106-1990 Guidelines.
✓ PCU load after proposed project at SH - 8 will be 300.3 (Existing) + 174.36 (Additional) PCU/hr. and level of service (LOS) will be A.
✓ PCU load after proposed project at 25 - B will be 212.4 (Existing) + 174.36 (Additional) PCU/hr. and level of service (LOS) will be A
<table>
<tr><th>Road</th><th>V (Volume in PCU/hr.)</th><th>C (Capacity in PCU/hr.)</th><th>Existing V/C Ratio</th><th>LOS</th></tr>
<tr><td>SH - 08</td><td>300.3 + 174.36= 474.66</td><td>3600*</td><td>0.13</td><td>A</td></tr>
<tr><td>25 - B</td><td>212.4 + 174.36 = 386.76</td><td>1500*</td><td>0.25</td><td>B</td></tr>
</table>
* Capacity as per IRC: 106-1990 Guidelines.
Conclusion: The level of service is “A” on SH - 08 and “B’ on 25 - B after including the additional traffic due to the proposed project.
</td></tr>
<tr><td>Flora and fauna</td><td>24 Schedule - I species was found within 10 Km radius.
Wildlife Conservation Plan for Schedule - I species has been prepared and submitted to DCF, Jhunjhunu and PCCF, Jaipur on 20th Jan., 2023 for authentication. A Budget of Rs. 25 Crore is allotted for the implementation of Wildlife Conservation Plan.</td></tr>
</table>

34.4.11 The details of solid and hazardous waste generation along with its mode of treatment/disposal is furnished as below:

S. No.	Type of Waste	Source	Quantity	Treatment / Disposal
1.	Dust	Cement Plant	124244 TPA	Dust collected from various APCEs will be totally recycled into the process.
2.	Fly ash	CPP	18000 Tonnes/month	Will be used in manufacturing of PPC grade cement
3.	STP Sludge	**STP (200 KLD (50 KLD Plant + 150 KLD Guest house/ colony)**	**80 kg/ day**	**Will be used as manure for greenbelt development / plantation**
4.	Used Oil, Contaminated cotton rags or other cleaning materials	Plant Maintenance	Used oil - 40 TPA Contaminated cotton rags or other cleaning materials - 25 TPA	Will be used in Kiln as co-processing as per Hazardous Waste Management Rules, 2016.
	Empty barrels/containers/liners		20 TPA	Will be sold to CPCB registered recycler as per Hazardous Waste Management Rules, 2016.
	Used Batteries		10 TPA	Will be sold to CPCB registered recycler as per Batteries (Management & Handling) Rules, 2001.
5.	Bottles, Paper, Cans, Textiles, etc.	MSW	24 TPA	Will be sold to registered recycler.
	Kitchen and canteen/ Green waste			Organic waste will be utilized as manure for greenbelt development/ plantation.

34.4.12 Public Consultation:

Details of advertisement given	Public Hearing Advertisement published in Newspapers Dainik Bhaskar" on 24th Nov., 2022" & The Times of India" on 25th Nov., 2022."
Date of Public Consultation	27th December, 2022 (Tuesday) at 11:00 AM
Venue	At Seth Sitaram Kayal, Government Sr. Secondary School, Basawa, Tehsil: Nawalgarh, District - Jhunjhunu (Rajasthan).
Presiding Officer	• **Shri Jagdish Prasad Gaud** Additional District Magistrate, Jhunjhunu • **Shri Deepak Dhantewal** Regional Officer, Rajasthan State Pollution Control Board, Rajasthan

Major issues raised	Employment, Environment & Pollution, Water, Land, Health, Socio Economic Development, Plantation, etc.

Action plan as per MoEF&CC O.M. dated 30/09/2020:

PHASE - 1						
Concerns raised during the Public Hearing	**Physical activity to be done**	**Unit of Measurement**				
		1st Year		**2nd Year**		
		Location / Area	**Budget in Lakhs**	**Location / Area**	**Budget in Lakhs**	
Employment	Establishment of Skill Development Centre for providing short duration programs for unemployed youth in the field of domestic electrician, plumber, mobile repairing etc.	01 Centre (Village Khirod)	20	01 Centre (Village Basawa)	20	
	Various Sustainable Livelihood Programme for Women and Construction of Sewing, Tailoring & Computer Center	01 Centre (Village Basawa)	10	01 Centre (Village Khirod)	10	
Socio-Economic Development	**Infrastructure Development**					
	Repair / Restoring the Village Pathways/Road	02 No. (Basawa & Khirod)	100	01 Nos (Villages Turkani Johdi & Khemri Ki dhani)	100	
	Installation of Street Light	150 nos. (Village Basawa)	10	150 nos. (Village Khirod)	10	
	Installation of Solar Light	25 nos. (Village Khirod)	10	25 nos. Village Basawa	10	
	Solar System at School	02 No. (Khirod)	20	02 No. (Turkani)	20	
	Maintenance of Drainage system in nearby villages	Village Khirod	25	Village Basawa	25	

PHASE - 1						
Concerns raised during the Public Hearing	**Physical activity to be done**	**Unit of Measurement**				
		1st Year		**2nd Year**		
		Location / Area	**Budget in Lakhs**	**Location / Area**	**Budget in Lakhs**	
	Development of small Playgrounds/ Mini Parks (Parkettes)	Village Basawa	10	Village Khirod	10	
	Construction of community toilet in public places	5No. (Village Basawa)	15	5 No. (Village Khirod)	15	
	Provide vehicles for garbage collection under Swachh Bharat Mission	01 No. (Village Khirod)	10	01 No. (Village Basawa)	10	
	Construction of community centre	01 No. (Village Khirod)	100	_	0	
	Ground Water Conservation					
	Restoration of Water ponds / percolation tanks by desilting, clearing the water paths, strengthening the banks etc., and Development of wells and stepwell	01 No. (Village Basawa)	50	01 No. (Village Khirod)	50	
	Renovation and Maintenance of exiting water conservation structures, deepening / desilting of ponds etc.	01 No. (Village Basawa)	30	01 No. (Village Khirod)	30	
	Promotion & training on New Irrigation methods such as solar pumps, drip irrigation etc.	02No. (Village Khirod & Basawa)	18	1 No. (VillageTurkani Johdi)	9	
		01 No.	20	01 Nos	10	

		PHASE - 1				
Concerns raised during the Public Hearing	**Physical activity to be done**	**Unit of Measurement**				
		1st Year		**2nd Year**		
		Location / Area	**Budget in Lakhs**	**Location / Area**	**Budget in Lakhs**	
	Rainwater harvesting structures on Govt. School Building	(Khirod & Basawa)		(Villages Turkani Johdi)		
	Safe Drinking water					
	Installation of RO/UV Plants to provide safe drinking water at community places	03 No. (Village Basawa)	30	03 No. (Village Khirod)	30	
	Construction of Tank for storage of water	2 No. (Village Khirod)	80	2 No. (Village Basawa)	80	
	Development of pipeline works	1 No. (Village Basawa)	20	1 No. (Village Khirod)	20	
	Maintenance/renovation of existing tube well, borewell & handpump	02 No. (Village Basawa & Khirod)	15	02 No. (Village Mohanwadi & Village Turkani ki Johdi)	15	
	Installation of Tubewells and Borewells in nearby villages	4 No. (Village Khirod)	80	3 No. (Village Basawa)	60	
	Education Related					
	Upgradations/Renovation of Classrooms & Toilets in Schools of nearby Villages	02 No. (Basawa & Khirod)	10	01 No. (Village Mohanwadi)	10	
	Providing 20 sets of Table and chair in nearby Government Schools	02 No. (Basawa & Khirod)	5	01 Nos (Village Turkani Johdi)	5	

PHASE - 1						
Concerns raised during the Public Hearing	**Physical activity to be done**	**Unit of Measurement**				
		1st Year		**2nd Year**		
		Location / Area	**Budget in Lakhs**	**Location / Area**	**Budget in Lakhs**	
	Providing sports kit and organizing sports meet in nearby villages	1 No. (Village Khirod)	5	1 No. (Village Basawa)	5	
	Installation of Smart classes in the Government schools to promote Digital education	1 No. (Village Basawa)	10	1 No. (Village Khirod)	10	
	Levelling of Sports Ground in School	Village Basawa	5	Village Khirod	5	
	Celebration of Social Events	Village Basawa & Khirod	5	Village Basawa & Khirod	5	
	Provide computer set in Govt Schools village Basawa-Khirod & Turkani Johdi as well as computer training program will be organized to train students of nearby villages	10 No. (Village Basawa)	10	10 No. (Village Khirod)	10	
	Health Related					
	Ambulance will be provided for villages	1 No. Khirod	15	01 No. (Village Basawa)	15	
	Construction of dispensary Centre and providing first aid kits in schools	2 No. (Village Khirod & Basawa)	20	01 No. (Village Mohanwadi & Khemri Ki dhani)	20	
		2 No.	15	01 No.	10	

PHASE - 1						
Concerns raised during the Public Hearing	**Physical activity to be done**	**Unit of Measurement**				
		1st Year		**2nd Year**		
		Location / Area	**Budget in Lakhs**	**Location / Area**	**Budget in Lakhs**	
	Providing Mobile Medical Van (medicine & checkup), medical investing equipment's and organizing Health camps in Villages (Basawa, Khirod, Mohanwadi & Turkani Ki johdi)	(Village Khirod & Basawa)		(Village Turkani Ki Johdi)		
	Renovation and construction of Community health center	01 No. (Village Basawa)	50	01 No. (Village Khirod)	50	
Agriculture Support Programme and Plantation	Community Block Plantation will be carried out in nearby villages and Schools to enhance the aesthetic as well as to mitigate pollution of the area and that will act as windshield.	5000 nos. saplings (2500 saplings each at Basawa and Khirod)	25	5000 nos. saplings (2500 saplings each at village Khemri Ki dhani and Mohanwadi)	25	
	Awareness and aid for organic farming in the nearby villages	2 No. (Village Khirod & Basawa)	10	01 No. (Village Turkani ki Johdi)	5	
Others	Support to social welfare scheme as suggested by District Administration	Village Basawa & Khirod	15	Village Basawa & Khirod	15	
Total			**873**		**724**	
First year will start from date of commencement of Project activity of Phase - I						

PHASE - II					
Concerns raised during the Public Hearing	**Physical activity to be done**	**Unit of Measurement**			
		1st Year		**2nd Year**	
		Location / Area	**Budget in Lakhs**	**Location / Area**	**Budget in Lakhs**
Employment	Establishment of Skill Development Centre for providing short duration programs for unemployed youth in the field of domestic electrician, plumber, mobile repairing etc.	01 Centre (Village Khirod)	30	01 Centre (Village Mohanbari)	30
	Various Sustainable Livelihood Programme for Women and Construction of Sewing, Tailoring & Computer Center	01 Centre (Village Mohanbari)	15		
Socio-Economic Development	**Infrastructure Development**				
	Repair / Restoring the Village Pathways/Road	02 No. (Basawa & Khirod)	50	01 Nos (Villages Turkani Johdi & Khemri Ki dhani)	30
	Installation of Street Light	150 nos. (Village Basawa)	10	75 nos. (Village Khirod)	7
	Installation of Solar Light	25 nos. (Village Khirod)	5	25 nos. Village Basawa	5
	Installation of High Mast Light	02 Nos (Villages Khirod)	30	02 Nos (Villages Basawa)	30
	Maintenance of Drainage system in nearby villages	Village Basawa	20	Village Khirod	20
	Construction of community toilet in public places	5No. (Village Basawa)	15	5 No. (Village Turkani Johdi)	15
	Construction of Multipropose Community halls	01 No.	50	01 No.	25

		PHASE - II			
Concerns raised during the Public Hearing	**Physical activity to be done**	**Unit of Measurement**			
		1st Year		**2nd Year**	
		Location / Area	**Budget in Lakhs**	**Location / Area**	**Budget in Lakhs**
		(Khirod)		(Basawa)	
	Provide vehicles for garbage collection under Swachh Bharat Mission	01 No. (Village Khirod)	10	01 No. (Village Basawa)	10
	Ground Water Conservation				
	Restoration of Water ponds / percolation tanks by desilting, clearing the water paths, strengthening the banks etc., and Development of wells and stepwell	01 No. (Village Basawa)	25	01 No. (Village Khirod)	25
	Renovation and Maintenance of exiting water conservation structures, deepening / desilting of ponds etc.	01 No. (Village Basawa)	10	01 No. (Village Khirod)	10
	Rainwater harvesting structures on Govt. School Building	01 No. (Khirod & Basawa)	10	01 Nos (Villages Turkani Johdi)	5
	Safe Drinking water				
	Installation of RO/UV Plants to provide safe drinking water at community places	02 No. (Village Basawa)	30	02 No. (Village Khirod)	30
	Construction of Tank for storage of water	1 No. (Village Khirod)	50		

PHASE - II					
Concerns raised during the Public Hearing	**Physical activity to be done**	**Unit of Measurement**			
		1st Year		**2nd Year**	
		Location / Area	**Budget in Lakhs**	**Location / Area**	**Budget in Lakhs**
	Maintenance/renovation of existing tube well, borewell & handpump	02 No. (Village Basawa & Khirod)	15	02 No. (Village Mohanwadi & Village Turkani ki Johdi)	15
	Installation of Tubewells and Borewells in nearby villages	3 No. (Village Khirod)	30	3 No. (Village Basawa)	30
	Education Related				
	Upgradations/Renovation of Classrooms & Toilets in Schools of nearby Villages	02 No. (Basawa & Khirod)	10	01 No. (Village Mohanwadi)	5
	Providing 20 sets of Table and chair in nearby Government Schools	02 No. (Basawa & Khirod)	10	01 Nos (Village Turkani Johdi)	10
	Providing sports kit and organizing sports meet in nearby villages	1 No. (Village Khirod)	10	1 No. (Village Basawa)	10
	Celebration of Social Events	Village Basawa & Khirod	10	Village Basawa & Khirod	10
	Provide computer set in Govt Schools village Basawa-Khirod & Turkani Johdi as well as computer training program will be organised to train students of nearby villages	10 No. (Village Basawa)	10	10 No. (Village Khirod)	10

PHASE - II					
Concerns raised during the Public Hearing	**Physical activity to be done**	**Unit of Measurement**			
		1st Year		**2nd Year**	
		Location / Area	**Budget in Lakhs**	**Location / Area**	**Budget in Lakhs**
	Health Related				
Agriculture Support Programme and Plantation	Community Block Plantation will be carried out in nearby villages and Schools to enhance the asthetic as well as to mitigate pollution of the area and that will act as windshield.	5000 nos. saplings (2500 saplings each at Basawa and Khirod)	25	5000 nos. saplings (2500 saplings each at village Khemri Ki dhani and Mohanwadi)	20
	Company will distribute High-yield variety seed as well as company will provide agricultural equipment to farmers of nearby villages	02 No. (Basawa & Khirod)	15	02 No. (Turkani ki johdi & Mohanwadi)	15
	Company will educate and provide hand on training to nearby local community on high tech farming techniques for upliftment of local farmers.	02 No. (Basawa & Khirod)	9	01 No. (Turkani ki johdi & Mohanwadi)	9
Others	Support to social welfare scheme as suggested by District Administration	Village Basawa & Khirod	10	Village Basawa & Khirod	10
Total			514		386
First year will start from date of commencement of Project activity of Phase - II					

Model Village Development Plan

S. No.	Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement			
			1st Year		2nd Year	
			Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs
1	***Skill Development***	Job oriented skills development training to unemployed youth	50 trainees/ Covering 5 villages	5	50 trainees/ Covering 5 villages	5
		Capacity building of farmers to reduce input cost and enhance income/ productivity and to improve agri-crop yield and social forestry	60 farmers/ covering 5 villages	7	60 farmers/ covering 5 villages	7
		Capacity Building and livelihood support to women	50 women/ 5 villages	5	50 women/ 5 villages	5
		Creating Model Anganwadi	2/ Basawa & Khirod	5	1/ Mohanwadi	2
		Installation of dustbins at schools, parks, hospitals & other places of worship & community centers	20 / Basawa & Mohanwadi	2	20 / Khirod	2
		Construction/ Renovation of sheds at Gaushala	1/ Basawa	3	1/ Khirod	1.5
2	***Ground Water Conservation***	Ponds/ Check Dams	1/ Basawa	7	1/ Khirod	7
3	***Safe Drinking Water***	Installation of Water huts with Water Coolers	1/ Khirod	5	1/ Basawa	5
			1/	1	1/ Mohanwadi	1

S. No.	Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement			
			1st Year		2nd Year	
			Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs
		Construction of water tanks, drinking water structures for animals to provide safe drinking water at community places	Basawa			
4	***Education***	Strengthening of school infrastructure to create model school	1/	5	1/ Khirod	7
		(providing furniture's and quality study materials)	Basawa			
		Construction of Library and Reading Rooms after consultation with Gram panchayat	01/Basawa	5	01 / Khirod	4
		Providing Sports Kit to schools	01/ Basawa	3	01/ Khirod	2
		(Cricket kit / Table Tennis /				
		basketball / badminton kit etc)				
5	***Health***	Renovation/ Construction (in consultation with local authority) of dispensary	01/ Basawa	10	01/ Khemri Ki dhani	10
		Centre and providing first aid kits				
		in schools & community centers				
		Installation of various public	5/	1	5/	1
		boards & posters to create	Covering		Covering	
		awareness regarding	5 villages		5 villages	
		communicable diseases & public				
		hygiene				
		Preventive health programme for women & Children	5/	2	5/	2
			Covering		Covering	
			5 villages		5 villages	

S. No.	Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement			
			1st Year		2nd Year	
			Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs
6	***Afforestation***	Distribution of saplings of native tree species, economical beneficial, fruit bearing trees and trees having high medicinal value in nearby villages	2000	7	2000	7
Total				**73**		**68.5**

NOTE*: Nature of the activities & village can be interchanged from village to village may vary based on the outcome of need base analysis dur Panchayat within the overall budget proposed here for Socio- Economic Development Plan.*

34.4.13 The capital cost of the proposed project is Rs. 2500 Crores (Phase - I: 1500 Crores and Phase - II: 1000 Crores) and the capital cost for Environmental Protection Measures is proposed as Rs. 200 Crores (Phase - I: 120 Crores and Phase - II: 80 Crores). The annual recurring cost towards the environmental protection measures is proposed as Rs. 30 Crores/ annum (Phase - I: 18 Crores and Phase - II: 12 Crores). The employment generation from the project is 3300 persons. The details of cost for environmental protection measures are as follows:

S. No.	Particulars	Phase - I (in Crores)		Phase - II (in Crores)		Total (in Crores)	
		Capital	Recurring	Capital	Recurring	Capital	Recurring
1	Air Pollution Control Measures	114.5	11.0	78.5	10.0	193	21
2	Water Pollution Control and Rain Water Harvesting Measures	2.0	2.0	-	0.4	2	2.4
3	Noise Pollution Control	1.0	0.50	1	0.9	2	1.4
4	Environment Monitoring and Management	0.50	2.0	0.5	0.5	1	2.5
5	Green Belt Development & Drip irrigation system	2.0	2.50	-	0.2	2	2.7
Total		120.0	18.0	80.00	12.0	200	30

34.4.14 Proposed greenbelt will be developed in 54.34 ha which is about 33% of the total project area. A 30 m wide greenbelt, consisting of at-least 3 tiers around plant boundary will be developed as greenbelt and green cover as per CPCB/MoEFCC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Approximately Total no. of 1,35,850 trees is proposed to be planted in 54.34 ha in 05 years.

34.4.15 It is reported that there is no violation of EIA Notification 1994 or EIA Notification 2006 or court case/show cause/direction against project.

Written representations:

34.4.16 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 30.05.2023 through email dated 31.05.2023 submitted the revised action plan submitted by the proponent to address the issues raised during the public hearing alogn with village adoption plan as updated at para 34.4.12 above.

Deliberations by the Committee

34.4.17 The Committee noted the following:

1. The instant proposal is for setting up of Integrated Cement Project - Clinker (2 x 3.5 Million TPA), Cement (2 x 3.5 Million TPA), CPP (2 x 30 MW), WHRS (2 x 18 MW) and D.G. Set (2 x 6 MW).
2. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project

Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.

3. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

4. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.

5. The total land area required for the proposed project is 164.69 ha {Project area - 159.74 (Plant & Colony/Guest House) + 4.95 ha belt conveyor}; out of which 0.05 ha is Government land and 164.64 ha is Private land. Out of total area i.e., 164.69 ha; 92.82 ha land under possession of company and for 53.0 ha land consent has been taken from landowners. Land acquisition of remaining land i.e., 18.87 ha is under process. The nature of land is Private Agricultural land and Government waste land and same will be converted into industrial use after introduction of the project.

6. The PP reported that 81 project affected families are present within the project site out of which 78 have Land and Homestead and 03 have only Land in the project site. Thererfore, R & R is involved in the project. Rs. 14.77 Crores budget has been allocated for R & R of project affected families.

7. The EAC noted that there is Turkani Johadi adjacent to the project site in SW. Also Baswa (1.5 km, E), Khirod (1.9 km, S), Kemri Ki Dhani (2.1 km, WSW), Milo Ka Bas (2.7 km, NW and Dhani Kanakawali (1 km, NE) along with 50 villages are present in 10 km radius of the study area within the study area. The EAC is of the opinion that PP shall strictly implement the environmental safeguard measures proposed to minimise the impact on the habitation of the locals.

8. The total water requirement is 1800 KLD (Phase - I: 1150 KLD and Phase - II: 650 KLD); which will be sourced from Ground Water. NOC for ground water withdrawal of 2000 KLD was obtained from CGWA vide letter No. CGWA/NOC/IND/REN/1/2023/7717 dated 1st May, 2023 which is valid up to 21st May, 2025. The EAC also opined that permission for drawl of additional water requirement shall be obtained for Competent Authority prior to commencement of operations.

9. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and found it satisfactory.

10. 24 Schedule - I species was found within 10 Km radius. Wildlife Conservation Plan for Schedule - I species has been prepared and submitted to DCF, Jhunjhunu and PCCF, Jaipur

on 20th Jan., 2023 for authentication. A Budget of Rs. 25 Crore is allotted for the implementation of Wildlife Conservation Plan.

11. The EAC noted that the Proposed greenbelt will be developed in 54.34 ha which is about 33% of the total project area. Approximately Total no. of 1,35,850 trees is proposed to be planted in 54.34 ha in 05 years. The Committee deliberated on the action plan and budget allocation for green belt development and is of the opinion that greenbelt shall be completed within 2 years, maximum plantation being undertaken in the 1st year itself.
12. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
13. The Committee also deliberated on the public hearing issues along with revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
14. The EAC also deliberated on the submitted written representation of project proponent and found it satisfactory.
15. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
16. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.
17. EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

Recommendations of the Committee:

34.4.18 In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for grant of Environment Clearance **subject to uploading the written submission on portal** under the provisions of EIA Notification, 2006 subject to the stipulation of following specific conditions and general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 based on project specific requirements:

A. Specific Condition:

i. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as applicable to this project.

ii. The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.

iii. The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.

iv. The total proposed project land shall be acquired and converted for industrial use prior to commencement of the project.

v. R&R shall be completed as per the applicable norms and laws.

vi. The EAC noted that there is Turkani Johadi adjacent to the project site in SW. Also Baswa (1.5 km, E), Khirod (1.9 km, S), Kemri Ki Dhani (2.1 km, WSW), Milo Ka Bas (2.7 km, NW and Dhani Kanakawali (1 km, NE) along with 50 villages are present in 10 km radius of the study area within the study area.. Project Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. PP needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.

vii. The total water requirement of 1800 KLD (Phase - I: 1150 KLD and Phase - II: 650 KLD);, as proposed to be met from ground water is permitted only after obtaining necessary permission from the Competent Authority. Efforts shall further be made to use maximum water from the rain water harvesting sources.

viii. Three tier Green Belt shall be developed in at least 33% of the project area within 2 years, maximum plantation being undertaken in the 1st year itself with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards Baswa, Khirod, Kemri Ki Dhani, Milo Ka Bas and Dhani Kanakawali Village. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.

ix. All the commitments made towards socio-economic development of the nearby villages including the commitments made during the previous EC shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 amounting to Rs.

20.50 Crores (Phase-I) and 12.50 Crores (Phase-II) shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.

x. As committed PP shall adopt village and implement the action plan to develop them into model villages in next three years.

xi. The recommendations of the approved Site-Specific 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 to the concerned Regional Office of the MoEF&CC.

B. General Conditions

I. Statutory compliance:

i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

ii. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

II. Air quality monitoring and preservation

i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 06 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

ii. The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM_{10} and $PM_{2.5}$ in reference to PM emission, and SO_2 and NOx in reference to SO_2 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.

iii. 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.

iv. Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.

v. 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.

vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.

vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.

viii. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.

ix. The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.

x. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.

xi. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.

xii. Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.

xiii. The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.

xiv. Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.

xv. Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.

xvi. The particulate matter emissions from the process stacks shall be less than 30 mg/Nm^3 and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.

xvii. Following additional arrangements to control fugitive dust shall be provided:

a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.
b. Proper covered vehicle shall be used while transport of materials.
c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.

xviii. Provide Low NOx burners as primary measures and SCR /NSCR technologies as secondary measure to control NOx emissions.

xix. The emission norms applicable for the cement plant shall be adhered to.

xx. Dioxin and Furan monitoring shall be carried out once in six months at cement kiln stack.

xxi. DeSOx system shall be provided dry type. NOx level shall be maintained below 600 mg/Nm^3 by using best available technology.

xxii. Petcoke dosing shall be controlled automatically to control SO_2 emission from chimney within the prescribed limits.

xxiii. PP shall identify the Source of fluoride emissions and action plan to mitigate the same shall be implemented.

xxiv. Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.

xxv. During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.

xxvi. The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m^3, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.

III. Water quality monitoring and preservation

i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 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.

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. 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.

iv. Water meters shall be provided at the inlet to all unit processes in the plants.

v. The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.

vi. The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.

vii. All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.

viii. Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.

ix. Air Cooled condensers shall be used in the captive power plant.

IV. Noise monitoring and prevention

iv. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

v. 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.

vi. PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.

V. Energy Conservation measures

i. 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;
ii. Provide LED lights in their offices and residential areas.
iii. The project proponent make efforts to achieve power consumption less than 65 units/tonne for Portland Pozzolona Cement (PPC) and 85 units/tonne for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.
iv. Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards.
v. Maximize utilization of alternate fuels and Co-processing to achieve best practice norms.
vi. Waste heat recovery system shall be provided for kiln and cooler.

VI. Waste management

i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
ii. Kitchen waste shall be composted or converted to biogas for further use.
iii. 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.
iv. The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
v. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
vi. Solid waste utilization
    a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.
    b. PP shall recycle/reuse solid waste generated in the plant as far as possible.
    c. Used refractories shall be recycled as far as possible.

VII. Green Belt

i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.

ii. Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.

iii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

VIII. 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 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.

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, creche 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.

IX. Environment Management

i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.

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. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.

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. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented

vi. 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.

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 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. The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.

xi. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.

xii. 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).

xiii. 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.

xiv. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

xv. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

xvi. 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.

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.

***

Consideration of Amendments/Corrigendum in EC

Agenda No. 34.5

34.5 Capacity expansion of Integrated Iron & Steel plant from 3.0 MTPA to 4.5 MTPA by M/s Bhushan Power & Steel Limited, located at Village Thelkoloi, P.O. Lapanga, Tehsil Rengali, District Sambalpur, Odisha- Consideration of Amendments/Corrigendum in EC.

[Proposal No. IA/OR/IND/429331/2023, File No IA-J-11011/40/2009-IA-II(I)]

34.5.1 The Committee noted that the PP/Consultant sent the requisite documents pertaining to the instant proposal in the late evening of 30.05.2023 i.e. just a day before the meeting day, although it was clearly mentioned in the agenda of the meeting uploaded on PARIVESH portal that "*It may be ensured that the Members receive the aforesaid requisite documents in soft copy/e-mail pertaining to the projects latest by 25.05.2023 positively. Failing which the Committee will not consider the project."* In view of the above circumstances, the EAC members also could not go through the documents and after deliberation recommended **to defer the proposal**. The EAC also warned PP/Consultant to be careful in future and shall comply with the directions mentioned in the agenda properly, as the whole process is online on Portal. The EAC further advised that the proposal shall be considered once the PP/Consultant are fully prepared and only after receiving the formal request of the project proponent, the proposal shall be placed before the EAC.

The meeting ended with thanks to the Chair.

***

ANNEXURE –1

Standard ToR in line with Appendix III of the EIA, 2006. applicable to Proposals Under Industry-1 Sector

Preliminary requirements:

i. EIA/EMP report cover page shall consists of project title with location, applicable schedule of the EIA Notification, 2006, ToR letter No. with date, study period along with EIA consultant & laboratory details with QCI/NABET/NABL accreditation certificate detail.

ii. Besides, following points shall be compiled as per QCI/NABET norms:
   a. Disclaimer by the EIA consultant.
   b. Declaration by the Functional Area Experts contributed to the EIA study and declaration by the head of the accredited consultant organization/authorized person.
   c. Undertaking by the project proponent owning the contents (information and data) of the EIA/EMP report.
   d. Undertaking by the EIA consultant regarding compliance of ToR issued by MoEF&CC.
   e. Consultant shall submit the Plagiarism Certificate for the EIA/EMP Report.

Structure of EIA/EMP report

Executive Summary

i. Table of Contents of the EIA report including list of tables/figures/annexures/abbreviations/symbols/notations.

ii. Point wise compliance to the ToR issued by MoEF&CC.

iii. Executive Summary

I. Introduction
   i. Name of the project along with applicable schedule and category as per EIA, 2006.
   ii. Location and accessibility

II. Project description
   i. Resource requirements (Land; water; fuel; manpower)
   ii. Operational activity
   iii. Key pollution concerns

III. Baseline Environment Studies
   i. Ambient air quality
   ii. Ambient Noise quality
   iii. Traffic study
   iv. Surface water quality
   v. Ground water quality
   vi. Soil quality
   vii. Biological Environment
   viii. Land use
   ix. Socio-economic environment

IV. Anticipated impacts

i. Impact on ambient air quality
ii. Impact on ambient noise quality
iii. Impact on road and traffic
iv. Impact on surface water resource and quality
v. Impact on ground water resource and quality
vi. Impact on terrestrial and aquatic habitat
vii. Impact on socio-economic environment

V. Alternative analysis
VI. Environmental Monitoring program
i. Ambient air, noise, water and soil quality
ii. Emission and discharge from the plant
iii. Green belt
iv. Social parameters

VII. Additional studies
i. Risk assessment
ii. Public consultation
iii. Action plan to address the issues raised during public consultation as per MoEF&CC O.M. dated 30/09/2020

VIII. Project benefits
IX. Environment management plan
i. Air quality management plan
ii. Noise quality management plan
iii. Solid and hazardous waste management plan
iv. Effluent management plan
v. Storm water management plan
vi. Occupational health and safety management plan
vii. Green belt development plan
viii. Socio-economic management plan
ix. Project cost and EMP implementation budget.

EIA/EMP Report

1. Introduction

i. Background about the project
ii. Need of the project
iii. Purpose of the EIA study
iv. Scope of the EIA study

2. Project description

A. Site Details

i. Location of the project site covering village, Taluka/Tehsil, District and State.
ii. Site accessibility
iii. A digital toposheet in pdf or shape file compatible to google earth of the study area of radius of 10km and site location preferably on 1:50,000 scale. (including all eco-sensitive areas and environmentally sensitive places).

iv. Latest High-resolution satellite image data having 1 m - 5 m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc., along with delineation of plant boundary co-ordinates. Area must include at least 100 m all around the project location.

v. Environment settings of the site and its surrounding along with map.

vi. A list of major industries with name, products and distance from plant site within study area (10km radius) and the location of the industries shall be depicted in the study area map.

vii. In case if the project site is in vicinity of the water body, 50 meters from the edge of the water body towards the site shall be treated as no development/construction zone. If it's near the wetland, Guidelines for implementing Wetlands (Conservation and Management) Rules, 2017 may be followed.

viii. In case if the project site is in vicinity of the river, the industry shall not be located within the river flood plain corresponding to one in 25 years flood, as certified by concerned District Magistrate/Executive Engineer from State Water Resources Department (or) any other officer authorized by the State Government for this purpose as per the provisions contained in the MoEF&CC Office Memorandum dated 14/02/2022.

ix. In case of canal/ nala/ seasonal drain and any other water body passing through project site, the PP shall submit the suitable steps /conservation plan/mitigation measures along with contouring, Run -off calculations, disposal etc. A robust and full proof Drainage Conservation scheme to protect the natural drainage/water bodies and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be provided in the report.

x. Type of land, land use of the project site needs to be submitted.

xi. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process as per the MoEF&CC O.M. dated 7/10/2014 shall be furnished.

xii. Project proponent shall prepare Engineering layout plan showing all internal roads minimum 6 m width and 9 m turning radius for smooth traffic flow inside including fire tender as per NBC. Road network shall connect all service areas in layout. This drawing shall include area statement showing plot area, area under roads, parking, green belt with calculations and % with respect to plot area of project site and proper indexing. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.

xiii. Project proponent shall submit contour map of project site along with drainage disposal system with calculations and drawings supported with proper indexing including Rain Water Harvesting details with calculations mentioning about GW recharge along with relevant drawing.

xiv. A detailed report covering all aspects of Fire Safety Management and Fire Emergency Plan shall be submitted.

xv. Details of drone survey for the site, needs to be included in report and presented before the EAC during appraisal of the project.

B. Forest and wildlife related issues (if applicable):

i. Status of Forest Clearance for the use of forest land shall be submitted.
ii. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife if the project site located within notified Eco-Sensitive Zone, 10 km radius of national park/sanctuary wherein final ESZ notification is not in place as per MoEF&CC Office Memorandum dated 8/8/2019.
iii. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, Eco-sensitive Zone and Eco-sensitive areas, the project proponent shall submit the map duly authenticated by Divisional Forest Officer showing the distance between the project site and the said areas.
iv. Wildlife Conservation Plan duly authenticated by the Competent Authority of the State Government for conservation of Schedule I fauna along with budget and action plan, if any exists in the study area.

C. Salient features of the project

i. Products with capacities in **Tons per Annum** for the proposed project.
ii. If expansion project, status of implementation of existing project, details of existing/proposed products with production capacities in Tons per Annum.
iii. Site preparatory activities.
iv. List of raw materials required and their source along with mode of transportation.
v. Other than raw materials, other chemicals and materials required with quantities and storage capacities.
vi. Manufacturing process details along with process flow diagram of proposed units.
vii. Consolidated materials and energy balance for the project.
viii. Total requirement of surface/ ground water and power with their respective sources, status of approval.
ix. Water balance diagram
x. Details of Emission, effluents, hazardous waste generation and mode of disposal during construction as well as operation phase.
xi. Man-power requirement.
xii. Cost of project and scheduled time of completion.
xiii. In case of expansion projects, project proponent shall submit structural stability certificate showing whether existing structure withstand for proposed expansion activity.
xiv. Brief on present status of compliance (Expansion/modernization proposals)
    a. Cumulative Environment Impact Assessment for the existing as well as the proposed expansion/modernization shall be carried out.
    b. In case of ground water drawl for the existing unit, action plan for phasing out of ground water abstraction in next two years except for domestic purposes and shall switch over to 100 % use of surface water from nearby source.
    c. Copy of all the Environment Clearance(s) including Amendments/validity of extension/transfer of EC, there to obtained for the project from MoEF&CC/SEIAA shall be attached as Annexures. A Certified Compliance Report (CCR) of the Integrated Regional Office of the Ministry of Environment, Forest and Climate Change/ or concerned authority as per OM

No. IA3-22/10/2022-IA.III [E 1772581], dated 8th June, 2022 on the status of compliance of conditions stipulated in all the existing environment clearances including amendments shall be provided. A Certified Compliance Report (CCR) issued by the concerned Authority shall be valid for a period of one year from the date of inspection.

d. In case the existing project has not obtained Environment Clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. A proper justification needs to be submitted along with documentary proof. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 1994 or 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of CTO from the Regional Office of the SPCB shall be submitted, as per OM No. IA3-22/10/2022-IA.III [E 1772581], dated 8th June, 2022. CCR on CTO conditions issued by the concerned SPCBs/PCCs shall be valid for a period of one year from the date of inspection of the project.

3. Description of the Environment

i. Study period

ii. Approach and methodology for data collection as furnished below.

Attributes	Sampling		Remarks
	Network	Frequency	
A. Air Environment			
Micro-Meteorological • Wind speed (Hourly) • Wind direction • Dry bulb temperature • Wet bulb temperature • Relative humidity • Rainfall • Solar radiation • Cloud cover • Environmental Lapse Rate	Minimum 1 site in the project impact area	1 hourly continuous	• IS 5182 Part 1-20 • Site specific primary data is essential • Secondary data from IMD, New Delhi • CPCB guidelines to be considered.
Pollutants • $PM_{2.5}$	At least 8-12 locations	As per National Ambient Air Quality Standards, CPCB Notification.	• Sampling as per CPCB guidelines • Collection of AAQ data (except in monsoon season) • Locations of various stations for different
• PM_{10}			
• SO_2			
• NOx			
• CO			
• HC			

Attributes	Sampling		Remarks
	Network	Frequency	
• Other parameters relevant to the project and topography of the area			parameters should be related to the characteristic properties of the parameters. • The monitoring stations shall be based on the NAAQM standards as per GSR 826(E) dated 16/11/2009 and take into account the predominant wind direction, population zone and sensitive receptors including reserved forests, • Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAAQM Notification of 16/11/2009 along with min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
B. Noise			
• Hourly equivalent noise levels	At least 8-12 locations	As per CPCB norms	-
C. Water			

Attributes	Sampling		Remarks
	Network	Frequency	
Parameters for water quality • pH, temp, turbidity, magnesium hardness, total alkalinity, chloride, sulphate, nitrate, fluoride, sodium, potassium, salinity • Total nitrogen, total phosphorus, DO, BOD, COD, Phenol • Heavy metals • Total coliforms, faecal coliforms • Phyto-plankton • Zoo-plankton • Microalgae/microalgal bloom	Samples for water quality should be collected and analyzed as per: • IS: 2488 (Part 1-5) methods for sampling and testing of Industrial effluents • Standard methods for examination of water and wastewater analysis published by American Public Health Association.		
For River Bodies • Total Carbon • pH • Dissolved Oxygen • Biological Oxygen Demand • Free NH4 • Boron • Sodium Absorption Ratio • Electrical Conductivity • TDS	• Surface water quality of the nearest River (60m upstream and downstream) and other surface water bodies	• Yield of water sources to be measured during critical season • Standard methodology for collection of surface water (BIS standards)	
For Ground Water	• Ground water monitoring data should be collected at minimum of 8 locations (from existing wells /tube wells/existing current records) from the study area and shall be included.		
D. Traffic Study			
• Type of vehicles • Frequency of vehicles for transportation of materials	-		

Attributes	Sampling		Remarks
	Network	Frequency	
• Additional traffic due to proposed project • Parking arrangement			
E. Land Environment			
Soil • Particle size distribution • Texture • pH • Electrical conductivity • Cation exchange capacity • Alkali metals • Sodium Absorption Ratio (SAR) • Permeability • Water holding capacity • Porosity	Soil samples be collected as per BIS specifications		
Land use/Landscape • Location code • Total project area • Topography • Drainage (natural) • Cultivated, forest, plantations, water bodies, roads and settlements	-		
E. Biological Environment			
Aquatic • Primary productivity • Aquatic weeds • Enumeration of phyto plankton, zoo plankton and benthos • Fisheries • Diversity indices • Trophic levels • Rare and endangered species • Marine Parks/ Sanctuaries/ closed	• Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. Indicator species which indicate ecological and environment degradation should be identified and included to clearly state whether the proposed project would result in to any adverse effect on any species. • Samples to collect from upstream and downstream of discharge point, nearby tributaries at downstream, and also from dug wells close to activity site. • For forest studies, direction of wind should be considered while selecting forests.		

Attributes	Sampling		Remarks
	Network	Frequency	
areas /coastal regulation zone (CRZ) **Terrestrial** • Vegetation-species list, economic importance, forest produce, medicinal value • Importance value index (IVI) of trees • Fauna • Avi fauna • Rare and endangered species • Sanctuaries / National park / Biosphere reserve • Migratory routes	• Secondary data to collect from Government offices, NGOs, published literature.		
F. Socio-economic			
• Demographic structure • Infrastructure resource base • Economic resource base • Health status: Morbidity pattern • Cultural and aesthetic attributes • Education	• Socio-economic survey is based on proportionate, stratified and random sampling method. • Primary data collection through questionnaire • Secondary data from census records, statistical hard books, topo sheets, health records and relevant official records available with Govt. agencies		

iii. Interpretation of each environment attribute shall be enumerated and summarized as given below:

- Ambient air quality
- Ambient Noise quality
- Surface water quality
- Ground water quality
- Soil quality
- Biological Environment
- Land use
- Socio-economic environment

4. **Anticipated Environment Impacts and mitigation measures (In case of expansion, cumulative impact assessment shall be carried out)**

i. Identification of potential impacts in the form of a **matrix** for the construction and operation phase for all the environment components

Activity	Environment	Ecological	Socio-economic
Construction phase			
Operation phase			

ii. Impact on ambient air quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
   a. Construction phase
   b. Operation phase
      - Details of stack emissions from the existing as well as proposed activity.
      - Assessment of ground level concentration of pollutants from the stack emission based on AQIP Modelling The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any along with wind rose map for respective period
      - Impact on ground level concentration, under normal, abnormal and emergency conditions. Measures to handle emergency situations in the event of uncontrolled release of emissions.

iii. Impact on ambient noise quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
   a. Construction phase
   b. Operation phase

iv. Impact on traffic (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
   a. Construction phase
   b. Operation phase

v. Impact on soil quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
   a. Construction phase
   b. Operation phase

vi. Impact on land use (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
   a. Construction phase
   b. Operation phase

vii. Impact on surface water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
   a. Construction phase
   b. Operation phase

viii. Impact on ground water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
   a. Construction phase

b. Operation phase

ix. Impact on terrestrial and aquatic habitat (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
   a. Construction phase
   b. Operation phase

x. Impact on socio-economic environment (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
   a. Construction phase
   b. Operation phase

xi. Impact on occupational health and safety (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
   a. Construction phase
   b. Operation phase

5. Analysis of Alternatives (Technology & Site)

i. No project scenario
ii. Site alternative
iii. Technical and social concerns
iv. Conclusion

6. Environmental Monitoring Program

i. Details of the Environment Management Cell
ii. Performance monitoring schedule for all pollution control devices shall be furnished.
iii. Corporate Environment Policy
   a. 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.
   b. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environment or forest norms / conditions? If so, it may be detailed in the EIA.
   c. What is the hierarchical system or Administrative order of the company to deal with the environment issues and for ensuring compliance with the environment clearance conditions? Details of this system may be given.
   d. Does the company have system of reporting of non compliances / violations of environment 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

iv. Action plan for **post-project environment monitoring matrix**:

Activity	Aspect	Monitoring Parameter	Location	Frequency	Responsibility
Construction phase					
Operation phase					

7. Additional Studies

i. Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage after offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitorable with defined time frames.

ii. Details of adoption/ implementation status/plan to achieve the goal of Glasgow COP26 Climate Submit with regard to enhance the non-fossil energy, use of renewable energy, minimization of net carbon emission and carbon intensity with long-term target of "net Zero" emission.

iii. Implementation status/measures adopted for avoiding the generation of single used plastic waste.

iv. In cases the project is located in Critically and Severely Polluted Areas, additional mitigation measures adopted and detailed action plan to be submitted in the EIA/EMP Report as per MoEF&CC O.M. No. 22-23/2028-IA.III dated 31/10/2019 and MoEF&CC O.M. No. 22-23/2028-IA.III dated 5/07/2022 has to be submitted.

v. Public consultation details (Entire proceedings as separate annexure along with authenticated English Translation of Public Consultation proceedings).

vi. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration. In this regard, time bound action plan as per the MoEF&CC Office Memorandum dated 30/09/2020 shall be submitted.

vii. Summary of issues raised during public consultation along with action plan to address the same as per MoEF&CC O.M. dated 30/09/2020

S No	Physical activity and action plan		Year of implementation (Budget in INR)			Total Expenditure (Rs. in Crores)
	Name of the Activity	Physical Targets	1st	2nd	3rd	

viii. Risk assessment

- Methodology
- Hazard identification
- Frequency analysis
- Consequence analysis
- Risk assessment outcome

ix. Emergency response and preparedness plan

8. Project Benefits

i. Environment benefits

ii. Social infrastructure

iii. Employment and business opportunity
iv. Other tangible benefits

9. Environment Cost Benefit Analysis

i. Net present value
ii. Internal rate of return
iii. Benefit cost ratio
iv. Cost effectiveness analysis

10. Environment Management Plan (Construction and Operation phase)

i. Air quality management plan
ii. Noise quality management plan
iii. Action plan for hazardous waste management
iv. Action plan for solid waste management
v. Action plan for e-waste management.
vi. Action plan for plastic waste management.
vii. Action plan for construction and demolition waste management.
viii. Effluent management plan
ix. Storm water management plan
x. Rain water harvesting plan
xi. Plan for maximum usage of waste water/treated water in the Unit
xii. Occupational health and safety management plan
xiii. Green belt development plan: An action plan for Green Belt development consisting of 3 tiers of plantations of native species all along the periphery of the project of adequate width shall be raised in 33% of total area with a tree density shall not less than 2500 per ha within a time frame of one year shall be submitted. Survival rate of green belt shall be monitored on periodic basis to ensure that survival rate not be less than 80 %.
xiv. Socio-economic management plan
xv. Wildlife conservation plan (In case of presence of schedule I species)
xvi. Total capital cost and recurring cost/annum for environment pollution control measures shall be included.

11. Conclusion of the EIA study

12. In addition to the above, 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.

****

ANNEXURE-2

Standard ToRs FOR CEMENT INDUSTRY [3(b)]

1. Limestone and coal linkage documents along with the status of environment clearance of limestone and coal mines.
2. Quantum of production of coal and limestone from coal & limestone mines and the projects they cater to;
3. Present land use shall be prepared based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc. for the 10 Km radius area from proposed site. The same shall be used for land used/land-cover mapping of the area.
4. If the raw materials used have trace elements, an environment management plan shall also be included.
5. Plan for the implementation of the recommendations made for the cement plants in the Corporate Responsibility for Environmental Protection (CREP) guidelines shall be prepared.
6. Energy consumption per ton of clinker and cement grinding
7. Provision of waste heat recovery boiler
8. Arrangement for co-processing of hazardous waste in cement plant.
9. Provision of Alternate fuels.
10. Details of Implementation of Fly Ash Management Rules
11. Emission/Effluent norms as per GSR 496 (E) dated 9/5/2016 [EPA Rules 1986].
12. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
13. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm3 shall be furnished.
14. PP shall explore the possibility of plastic waste utilization in the Plant/Unit process.
15. Action plan for 100 % solid waste utilization shall be submitted.
16. PM (PM_{10} and $P_{2.5}$) present in the ambient air must be analysed for source analysis – natural dust/RSPM generated from plant operations (trace elements) of PM_{10} to be carried over.

Standard ToRs FOR INTEGRATED STEEL PLANT [3(a)]

1. Iron ore/coal linkage documents along with the status of environment clearance of iron ore and coal mines.
2. Quantum of production of coal and iron ore from coal & iron ore mines and the projects they cater to. Mode of transportation to the plant and its impact.
3. For Large ISPs, a 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site. MRL details of project site and RL of nearby sources of water shall be indicated.
4. Recent land-use map based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc. for the 10 Km radius area from proposed site. The same shall be used for land used/land-cover mapping of the area.

5. PM (PM_{10} and $PM_{2.5}$) present in the ambient air must be analysed for source analysis – natural dust/RSPM generated from plant operations (trace elements) of PM_{10} to be carried over.
6. All stock piles will have to be on top of a stable liner to avoid leaching of materials to ground water.
7. Plan for the implementation of the recommendations made for the steel plants in the CREP guidelines.
8. Plan for slag utilization
9. Plan for utilization of energy in off gases (coke oven, blast furnace)
10. System of coke quenching adopted with justification.
11. Trace metals Mercury, arsenic and fluoride emissions in the raw material.
12. Trace metals in waste material specially in slag.
13. Trace metals in water
14. Details of proposed layout clearly demarcating various units within the plant.
15. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs and outputs (material and energy balance).
16. Details on design and manufacturing process for all the units.
17. Details on environmentally sound technologies for recycling of hazardous materials, as per CPCB Guidelines, may be mentioned in case of handling scrap and other recycled materials.
18. Details on requirement of energy and water along with its source and authorization from the concerned department. Location of water intake and outfall points (with coordinates).
19. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
20. Details on toxic content (TCLP), composition and end use of slag.
21. Fourth Hole fume extraction system shall be provided for submerged Arc Furnace (SAF). Waste heat recovery (WHR) system shall be installed to recover the sensible heat from flue gases of electric arc furnace (EAF).
22. Emission/effluent norms as per G.S.R 894 (E) dated 4/12/2019 [EPA Rules 1986].
23. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
24. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm3 shall be furnished.
25. Action plan for 100 % solid waste utilization shall be submitted.
26. PP shall explore the possibility of plastic waste utilization in the Plant/Unit process.

Standard ToRs FOR METALLURGICAL INDUSTRY (Ferrous and Non-ferrous)[3(a)]

1. A 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site. MRL details of project site and RL of nearby sources of water shall be indicated.
2. Plan for the implementation of the recommendations made for the proposed Unit in the Corporate Responsibility for Environmental Protection (CREP) guidelines.
3. Plan for solid wastes utilization.

4. Plan for utilization of energy in off gases (coke oven, blast furnace)
5. System of coke quenching adopted with full justification.
6. Details on environmentally sound technologies for recycling of hazardous materials, as per CPCB Guidelines, may be mentioned in case of handling scrap and other recycled materials.
7. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
8. Details on toxic content using Toxicity Characteristic Leaching Procedure (TCLP), composition and end use of slag.
9. 100 % dolo char generated in the plant shall be used to generate power.
10. Fourth Hole fume extraction system shall be provided for SAF.WHR system shall be installed to recover sensible heat from flue gases of EAF. Provision for installation of jigging and briquetting plant to utilise the fines generated in the process.
11. No tailing pond is permitted for Iron ore slimes. Dewatering and filtration system shall be provided.
12. Emission/effluent norms as per G.S.R 894 (E) dated 4/12/2019 [EPA Rules 1986].
13. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
14. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be submitted.
15. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm3 shall be furnished.
16. Action plan for 100 % solid waste utilization shall be submitted.
17. PM (PM_{10} and $P_{2.5}$) present in the ambient air must be analysed for source analysis – natural dust/RSPM generated from plant operations (trace elements) of PM_{10} to be carried over.

******

Standard ToRs FOR PULP AND PAPER INDUSTRY [5(i)]

1. A note on pulp washing system capable of handling wood pulp shall be included.
2. Manufacturing process details for the existing and proposed plant shall be included. Chapter on Pulping & Bleaching shall include: no black liquor spillage in the area of pulp mill; no use of elemental chlorine for bleaching in mill; installation of hypo preparation plant; no use of potcher washing and use of counter current or horizontal belt washers. Chapter on Chemical Recovery shall include: no spillage of foam in chemical recovery plant, no discharge of foul condensate generated from MEE directly to ETP; control of suspended particulate matter emissions from the stack of fluidized bed recovery boiler and ESP in lime kiln
3. Studies shall be conducted and a chapter shall be included to show that Soda pulping process can be employed for Eucalyptus/Casuarina to produce low kappa (bleachable) grade of pulp.

4. Commitment that only elemental Chlorine-free technology will be used for the manufacture of paper and existing plant without chemical recovery plant will be closed within 2 years of issue of environment clearance.
5. A commitment that no extra chlorine base bleaching chemicals (more than being used now) will be employed and AOx will remain within limits as per CREP for used based mills. Plan for reduction of water consumption.
6. Undertaking to comply with the norms stipulated in the S.O. 3187 (E) dated 7/10/2016 for the projects located in Ganga basin.
7. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
8. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm3 shall be furnished.
9. Action plan for 100 % waste utilization shall be submitted.

Standard ToRs FOR LEATHER/SKIN/HIDE PROCESSING INDUSTRY [4(f)]

1. Justification for engaging a particular type of process (raw hide/skin into semi finishing or finished leather, semi-finished leather to finished leather, dry finishing operations, chrome/vegetable tanning, etc.).
2. Details regarding complete leather/ skin/ hide processing including the usage of sulphides, nitrogen compounds, chromium or other tanning agents, post-tanning chemicals, biocides, etc., along with the material balance shall be provided.
3. In case of chrome tanning, details of the chrome recovery plant, management of shavings/solid waste including safe disposal.
4. Details on reuse of soak liquor / saline stream from membrane system, if applicable, to the extent possible in pickling activity after required treatment. Also, mention the salt recovery measures.
5. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm3 shall be furnished.
6. Action plan for 100 % waste utilization shall be submitted.

Standard ToRs FOR COKE OVEN PLANT [4(b)]

1. Justification for selecting recovery/non-recovery (beehive) type batteries with the proposed unit size.
2. Details of proposed layout clearly demarcating various facilities such as coal storages, coke making, by-product recovery area, etc within the plant.
3. Details of coke oven plant (recovery/non-recovery type) including coal handling, coke oven battery operations, coke handling and preparation.
4. Scheme for coal changing, charging emission centre, Coke quenching technology, pushing emission control.

5. Scheme for coke oven effluent treatment plant details including scheme for meeting cyanide standard.
6. Emission/effluent norms as per G.S.R 894 (E) dated 4/12/2019. Provision of CDQ in case of coke oven plant of 0.8 MTPA and above.
7. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm3 shall be furnished.
8. Action plan for 100 % solid waste utilization shall be submitted.
9. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.

Standard ToRs FOR ASBESTOS MILLING AND ASBESTOS BASED PRODUCTS[4(c)]

1. Type of fibres used (Asbestos and others) and preference of selection from techno-environment angle should be furnished
2. As asbestos is used in several products and as the level of precautions differ from milling to usage in cement products, friction products gasketing, textiles and also differ with the process used, it is necessary to give process description and reasons for the choice for selection of process
3. Technology adopted, flow chart, process description and layout marking areas of potential environment impacts
4. National standards and codes of practice in the use of asbestos particular to the industry should be furnished
5. In case of newly introduced technology, it should include the consequences of any failure of equipment/ technology and the product on environment status.
6. In case of expansion project asbestos fibre to be measured at stack emission and work zone area, besides base line air quality.
7. In case of green field project asbestos fibre to be measured in the ambient air.
8. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm3 shall be furnished.
9. Action plan for 100 % solid waste utilization shall be submitted.
10. PM (PM10 and P2.5) present in the ambient air must be analysed for source analysis – natural dust/RSPM generated from plant operations in case of expansion projects (trace elements /asbestos fibre) of PM10 to be carried over.
11. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.

Standard ToRs FOR IRON ORE BENEFICIATION PLANT [2 (b)]

1. Details regarding pollution control measures to be adopted in the mineral handling area, loading and unloading areas including all transfer points shall be submitted.

2. The Project proponent shall submit action plan for conditioning of the ore with water to mitigate fugitive dust emission, without affecting flow of ore in the ore processing and handling areas.
3. Treatment details regarding effluent generated from the ore beneficiation plant and the mode of transportation of tailing slurry shall be submitted.
4. Separate chapter on slime management shall be submitted.
5. Action plan for regular monitoring of ground water level and quality in and around the project area of beneficiation plant and tailing/slime pond shall be submitted by establishing a network of existing wells and constructing new piezometers.
6. Details regarding lining of the tailing/slime pond to be provided shall be submitted in order to ensure that there is no leaching from the tailing/slime pond.
7. Details regarding establishment of garland drain around the tailing/slime pond and the quantity of decanted water to be re-circulated from the tailing/slime pond shall be submitted along with complete water balance.
8. Technology to be adopted for maximum recovery of ore in order to reduce slurry discharge and to increase the life of the tailing/slime pond shall be submitted.
9. Action plan for 100 % solid waste utilization shall be submitted.
10. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.

*****

Executive Summary

Executive summary of the report in about 8/10 pages incorporating the following:

i. Project name and location (Village, Dist, State, Industrial Estate (if applicable)
ii. Products and capacities. If expansion proposal, then existing products with capacities and reference to earlier EC.
iii. Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative)
iv. Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes. Materials balance shall be presented.
v. Measures for mitigating the impact on the environment and mode of discharge or disposal.
vi. Capital cost of the project, estimated time of completion
vii. Site selected for the project – Nature of land – Agricultural (single/double crop), barren, Govt/private land, status of is acquisition, nearby (in 2/3 km.) water body, population, with in 10km other industries, forest, eco/sensitive zones, accessibility, (note – in case of industrial estate this information may not be necessary)
viii. Baseline environmental data – air quality, surface and ground water quality, soil characteristic, flora and fauna, socio/economic condition of the nearby population
ix. Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.
x. Likely impact of the project on air, water, land, flora/fauna and nearby population
xi. Emergency preparedness plan in case of natural or in plant emergencies
xii. Issues raised during public hearing (if applicable) and response given
xiii. CSR plan with proposed expenditure.
xiv. Occupational Health Measures
xv. Post project monitoring plan

******

ANNEXURE-3

List of the Expert Appraisal Committee (Industry-1) members participated during VC meeting

S. No.	Name	Position	31.05.2023
1.	Shri Rajive Kumar	Chairman	***Present***
2.	Dr. Dipankar Shome	Vice Chairman	***Present***
3.	Dr. S. Ranganathan	Member	***Present***
4.	Dr. Ranjit Prasad	Member	***Present***
5.	Dr. S. K. Singh	Member	***Present***
6.	Dr. Tejaswini Ananthkumar	Member	***Absent***
7.	Dr. Hemant Sahasrabuddhe	Member	***Present***
8.	Dr. Jai Krishna Pandey	Member	***Present***
9.	Dr. E V R Raju	Member	***Present***
10.	Dr. S K Chaturvedi, Actg. DG, (Representatives of NCCBM)	Member	***Present***
11.	Shri Nazimuddin, Scientist 'F' (Representative of CPCB)	Member	***Present***
12.	Dr. S. Raghavan, Scientist 'D' (Representative of National Institute of Occupational Health (NIOH)	Member	***Present***
13.	Dr. Sanjay Bist, Scientist 'E' (Representative of Indian Meteorological Department)	Member	***Present***
14.	Dr. R.B. Lal, Scientist F, MoEFCC	Member Secretary	***Present***
MoEFCC			
15.	Dr R P Rastogi	Scientist C	***Present***
16.	Dr Sandeepan BS	Scientist B	***Present***

***

ANNEXURE-4

Approval of EAC Chairman

Email **Director MoEFCC Dr R B LAL**

Re: Draft minutes of the 34th EAC Meeting held on 31st May, 2023 for approval of the Chairman

---

From : rajivekumar1983@gmail.com — Tue, Jun 06, 2023 06:44 PM

Subject : Re: Draft minutes of the 34th EAC Meeting held on 31st May, 2023 for approval of the Chairman

To : Director MoEFCC Dr R B LAL <rb.lal@nic.in>

Cc : chairman eac ind 1 <chairman.eac.ind.1@gmail.com>, ranganathan metals <ranganathan.metals@gmail.com>, ranjitnitj@gmail.com, rajuevr60@gmail.com, sksinghdce@gmail.com, dshome61@gmail.com, tejaswini acf <tejaswini.acf@gmail.com>, sshemant 801 <sshemant_801@rediffmail.com>, dg@ncbindia.com, Nazimuddin <nazim.cpcb@nic.in>, Raghavan S <raghuharihar@gov.in>, raghuharihar@yahoo.co.in, Sanjay Bist <sanjay.bist@imd.gov.in>, drjkpandey eac industry1 <drjkpandey.eac.industry1@gmail.com>

Dear Dr Lal,
The minutes of 34 th EAC meeting are approved.
Kindly do needful.

With best wishes
Rajive Kumar
Chairman-EAC- Industry-1

***