

VARDHMAN SPECIAL STEEL LIMITED C-58, C-59m, FOCAL POINT, DHANDARI KALAN/ PHASE III JAMALPUR, LUDHIANA(EAST), LUDHIANA, PUNJAB

Half Yearly EC Compliance Report (Period 1st April, 2025 to 30th Sept, 2025) F.No. IA-J-11011/74/2013-IA-II (I) Dated- 23.06.2021

	(Period 1 st April, 2025 to 30 st Sept, 2025) F.No. IA-J-11011/74/2013-IA-II (I) Dated- 23.06.2021			
	INDUSTRY DETAILS			
1.	Project Type	Steel Industry		
2.	Name of the Project	M/s. Vardhman Special Steels Ltd.		
3.	Clearance letter (s) F.NO. &Date	Environment Clearance has been obtained from Ministry of Environment, forest and Climate Change, Govt. of India vide F.No. IA-J-11011/74/2013-IA II (I) dated 23 rd June 2021.		
4.	Location	Copy of the same is attached as Annexure-1		
		C-58, Industrial Focal Point, Phase-III Ludhiana-141010		
a)	District (s)			
b) 5.	State (s) Address for correspondence	Punjab M/s. Vardhman Special Steels Ltd. C-58, Industrial Focal Point, Phase-II Ludhiana, Punjab -141010		
6.	Salient features	Productivity improvement through technology upgradation of steel melting shop with Electric Arc Furnace, Installation of 2nd LRF, Replacing FO Boiler with mechanical Vacuum Pumping System for Vacuum Degassing, Addition of third Strand in caster, Upgradation of existing RHF & Installation of Kocks Mills along with other modifications from 2,00,000 TPA to 2,80,000 TPA. We have already obtained CTO for 2.8 LTPA wide no CTOA/Renewal/LDH1/ 2024/25748982 & CTOW/ Renewal/LDH1/ 2024/25748893 is attached as Annexure-2 & valid up to 30.06.2026. As required by the State Pollution Control Board, the approval from the State Competent Authority has been obtained under press Note 17 (1984 series). Copy of the same is already submitted. • Plant site co-ordinates are Latitude 30°53′12.60′ N to 30°53′11.46′ N and Longitude 75°54′17.57′ E, 75°54′19.77′ E, elevation 250 m. • The project covers an area of 27.74 acres (or 11.22 ha) • The nearest railway station is Ludhiana, which		

		is 6.5 km in WNW o	direction	
			Chandigarh Airport is 87 km	
		in ESE.	chandigam Amport is 67 km	
			/wildlife sanctuary/ reserve	
			10 km of study area.	
			located within Government	
		· · ·	l Focal Point, Ludhiana.	
a)	Of the project		area of 112259.8 sq.m (or	
		27.74 acres)		
b)	Of the environment	m3/day. No additional the project. Total electr	ement of the project is 766 ground water is required for icity demand of 38000 KVA is jab State Power Corporation 24 hrs.	
7.	Breakup of the Project area			
a)	Submergence area	Not Applicable		
8.	Breakup of the project affe	ected Not applicable as no nev	w land has been acquired. The	
	population with enumeration of t	hose expansion/ moderniza	tion is within the existing	
	losing houses/dwelling units	only, project.		
	•	dless		
	·	rers/		
	artisans.			
a)	SC/ST/Adivasis		Not Applicable	
b)	Others (Please indicate whe	· · ·		
	these figures are based on	·		
	scientific and systematic su			
	carried out or only provisi			
	figures, If a survey has been ca			
9.	out give details and year of surve	29).		
	Project cost as originally planned	land Bs 160 Crores		
a)	subsequent revised estimates			
	the year of price reference.	anu		
b)	Allocation made for Environr	ment As ner FMP proposed	expenditure on Environment	
	management plan with item		·	
	year of assessment.	wise protection incusares a.	o octow.	
	<u> </u>	ronment Expenditure		
S. N		Aprox. Capital Cost	Aprox. Recurring Cost	
		(in Lacs)	(in Lacs)	
1.	Air Pollution Control	1880	30.49	
2.	Waste Management	50	84.82	
3.	Environment Laboratory	-	-	
4.	Green Belt	190	12.05	
5.	Others	670	73.51	
	Total	2790	200.87	
	. 0 101		200.07	

c)	Benefit cost ratio/Internal rate of return	10.61% for H2 (ear 2024-2025 EBITDA to Sales)
	and year of assessment.	
d)	Whether (c) includes the cost of	Yes
	environmental management as	
	shown in (b) above.	
e)	Actual expenditure incurred on the	1300095345/-
	project so far.	
f)	Actual expenditure incurred on the	The actual capital cost & recurring
	environmental management plans so	expenditure done on the environmental
	far.	management plan as given in the table
		below:
	Evenorediture for Environ	mont Managament Dlan

Expenditure for Environment Management Plan (For Period 1st April, 2025 to 30th Sept, 2025)

S. No	o. Particulates	Aprox. Recurring Cost (in Rs.)
1.	FES Stack/ APCD maintenance (Bag Filters)	780273.00
2.	Hazardous Waste Management	8473725.00
3.	Bio Medical Waste Management	8140.00
4.	Environment	2268694.00
5.	Green Belt	1204682.00
6.	Safety/Fire Fighting	7309116.75
7.	ETP	42000.00
	Total	20086630.75
10.	Forest Land requirement	Not Applicable
a)	The status of the approval for	Not Applicable
	diversion of forest land for non	
	forestry use.	
b)	The status of clear felling.	Not Applicable
c)	The status of compensatory a	Not Applicable
	forestation programmer in the light of	
	actual field experience so far.	
11.	The status of clear felling in non-forest Not Applicable	
	areas (such as submergence area of	
	reservoir, approach road) if any, with	
	quantitative information.	
12.	Status of construction.	Completed
a)	Date of commencement (actual and/or	Phase I(2,00,000 TPA to 3,00,000
planned)		TPA):June'2022; Phase II (2,00,000 TPA to
		2,80,000 TPA):December '2022.
b)	Date of completion (actual and /or	Phase I: - In Process, Phase II: - Completed on
	planned)	31 st December 2022.
13.	Reasons for the delay if the project is	Not Applicable
	yet to start.	

COMPLIANCE STATUS OF ENVIRONMENT CLEARANCE LETTER F. NO. IA-J-11011/74/2013-IA-II (I) DATED- 23.06.2025 A. SPECIFIC CONDITIONS S. NO **SPECIFIC CONDITIONS COMPLIANCE STATUS** Overall emissions of PM, SOx and NO> Complied, The overall Emissions values are 1. shall not exceed the values PM = 357.5 being adhered and the current emission level kg/day; SOx = 846.7 kg/day and NOx for PM is below 30 mg/Nm3. The test result of 207.3 kg/day as committed by the all stacks of plant are well within the proponent post expansion. permissible range. Our online data is continusaly uploaded on PPCB & CPCB server. The Screenshot is given below. **CEMS Online Data Status** ☆ D ± ® : Punjab State Pollution Control Board Vardhman Special Steels Ltd (NA) G tack_Re-heating furnace STACK_Vardhman Steel_Unit2_Ludhiana Use of Furnace Oil as a fuel will be Complied, The Plant is using the Natural Gas as 2. prohibited for the existing fuel through PNG supply from GAIL. The Gas is being used in RHF/CCM & SMS area as fuel as expansion project post expansion. Project proponent shall use PNG for per CTO/EC condition. We have spent Rs. 18.94 heating purposes in line with Regional Crore for PNG fuel consumption from 1st April, 2025 to 30th Sept, 2025. The copy of Agreement Air Quality Management Strategy of Punjab Pollution Control Board. with GAIL is attached as Annexure-3. Particulate Matter emissions from all 3. Agreed & Complied, The industry is maintaining PM levels less than 30 mg/Nm3. The Report are stacks shall be less than 30mg/Nm3. attached as Annexure-4. Stack Emission Data (mg/Nm3) 35 30 30 30 30 25 17.74 18.07 18.25 18.17 20 14.26 13.47 15 10.78.57 8.24 10 3.94.26 3.28 3.12 3.11 0 Apr,25 May, 25 Aug,25 30 10.76 17.74 18.07 18.25 18.17 17.98 11.57 14.26 13.47 15.79 LRF 3.94 8.24 ■ EAF 3.12 3.34 3.26 3.28 Complied, All Efforts will be done to conserve Specific water consumption after 4. water. We have obtained ground water NOC from expansion shall maintained at 0.95 the PWRDA & The water consumption is well m3/ T of steel as committed by the

PP.

within limits as specified in condition of ground

	T	
		water NOC. NOC copy attached as Annexure-5 .
5.	300 KLD treated water from CETP of M/s. JBR technologies shall be used in expansion project.	Agreed & Accepted, Agreement with JBR Technologies has been signed for 300 KLD Water supply. The same shall be taken Post Expansion if needed for greenbelt outside the VSSL campus area for watering of green belts and plantation.
		The Copy of Agreement is attached as Annexure-6 .
6.	All roads shall be made Pucca and a vacuum cleaner shall be used to clean the roads.	Agreed & Complied, Vacuum Mechanical Sweeping Machines has been purchased for plant and surrounding areas and put to use. Make of the machine is IPC Tennant. In-house roads are pucca and cleaned through said machine on daily basis.
	Photographs o	f Sweeping Machines
on courses.	30/09/25 1425	
30°53′20.684″N	75°54′25,369 E 30°53′20.411′N 75°54′24.979′E	30/09/25 14/26 30°53′20.422′N 75°54′24.922′E
30°53'20.684'N	Community Rain Water Harvesting	Agreed, The same shall be done as per Compliance
7.	Community Rain Water Harvesting (RWH) shall be taken up to recharge 230000 KLA of water which is more than the annual consumption of the plant.	Agreed, The same shall be done as per Compliance and we are working on it. We have written to PWRDA to advise on the method and technology for executing the same and once the approved method is shared to us, we shall do the needful.

Point has been given by authorities, which shall be planted and maintained by project proponent.

Total green belt after this shall be 40 % of the total project area.

9. 100 % slag generated in the facility shall be utilized.

adjacent to the plant in the Focal

& D Centre Focal Point, Ludhiana Challikhoo Amritsar, Vardhman MCL Park Ludhiana & Patiala focal point. Copy attached as as **Annexure 7.**Agreed & Complied, Slag is being utilized for the

DMC Village Malakpur, Village Mansuram, PAU, R

Agreed & Complied, Slag is being utilized for the Cement Plant and Paver Work. Agreement is already done with Cement Manufacturing Unit and local paver units & slag is supplied to local vendor.

10. All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.

Agreed & Being Complied, Mobile Dust Suppression machine has been purchased from Cloud- Tech company for our steel plant to help suppress any sort of dust originating from any source and same is being used in VSSL and adjoining area of focal point roads Ludhiana & same is regularly used for plant purpose.

B. GENERAL CONDITIONS

(I) GENERAL CONDITIONS

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 legislation, etc., as may be applicable to the Project.

COMPLIANCE STATUS

Agreed and accepted.

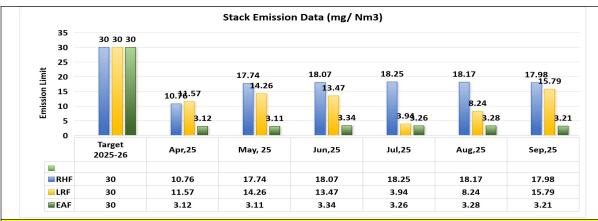
(II) Air Quality monitoring and Preservation

1.

The Project Proponent shall install 24x7 continuous monitoring systems at process stacks to monitor stack emissions as well as Continuous Ambient Air Quality Stations (CAAQS) for monitoring AAQ parameters with respect to standardsprescribed in (Protection) Environment Rules 1986 as amended from time to time. The CEMS and CAAQS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specifications through labs recognized Environment (Protection) Act, 1986 or NABL accreditedlaboratories.

COMPLIANCE STATUS

Agreed, Industry is already having CEMS at EAF and RHF and also maintaining CAAQMS. The said CEMS of EAF is connected to SPCB/CPCB servers and are calibrated on schedule by MoEF/NABL/SPCB approved Labs. Continuous Ambient Air Quality Monitoring Station of Horiba make has also been installed at site and data is being sent to Government and also monitored regularly.



Photographs of CAAQMS

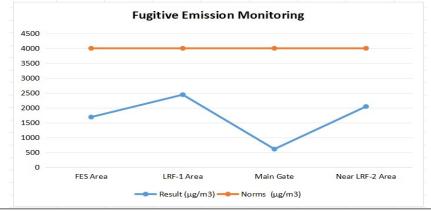


2. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

Agreed & Complied, Same is being done on quarterly basis. The fugitive emission reports are enclosed as **Annexure-8** and results are well within the permissible limit.

VSSL is using the Anti Smog gun for Control Fugitive emission within & outside the plant. The photographs of ASG. The same is based on cloud method.

Fugitive Emission Monitoring			
S.No.	Location	Result (μg/m3)	Norms (μg/m3)
1	FES Area	1685	4000
2	LRF-1 Area	2438	4000
3	Main Gate	607	4000
4	Near LRF-2 Area	2040	4000



Photographs of Anti Smog Gun

Appropriate Air Pollution Control 3. (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, to comply stack emission prescribed and fugitive emission standards.

Agreed & Complied, VSSL as responsible Industry has already installed the APCD on dust generating points. We have installed Fume Extraction system for capturing Primary & Secondary Emissions generated during the process at EAF and same system has been placed at LRF & MHS system also.

Photographs of Fume Extraction System



maintenance of bags.

already provided for EAF,LRF,MHS and Shot Blasting in compliance to the norms.

5. The project proponent shall ensure covered transportation conveying of ore, coat and other raw material to prevent spillage and dust generation.

Agreed & Complied, All raw material is kept in stores within enclosed covered shed area due to which no spillage and dust generation is there.

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

Complied, Primary & Secondary FES is well in place for EAF & LRF, For MHS we have a dedicated separate FES.

7. Wind shelter fence and chemical Agreed & Complied, The wind shelter wall is

raw material stock piles

spraying shall be provided on the already made in the plant and scrap storage area.

Photographs wind shelter wall



8. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, oil cellars

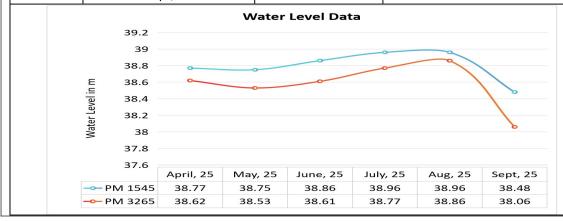
Agreed, The same is already existing and proper ventilation design is in place.

(III) Water Quality Monitoring and Reply **Preservation**

The project proponent shall monitor 1. regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometer/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 end NABL accredited laboratories.

Agreed & Complied, Two Piezometers have been installed at our plant premises (GWR01545 & GWR03265). Ground Water Sampling is conducted twice a year in March & September as a part of Compliance to monitor water quality. Ground Water reports are submitted to MoEF&CC/PPCB and water level data submitted to PWRDA on monthly basis. Same are enclosed as Annexure-9.

Ground Water Level (in meter)			
S. No.	Month	PM 01545	PM 03265
1	April, 25	38.77	38.62
2	May, 25	38.75	38.53
3	June, 25	38.86	38.61
4	July, 25	38.96	38.77
5	Aug, 25	38.96	38.86
6	Sept, 25	38.48	38.06



Photographs of Piezometers



2. 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.

Agreed, Arrangements are in place to meet any such run off.

3. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.

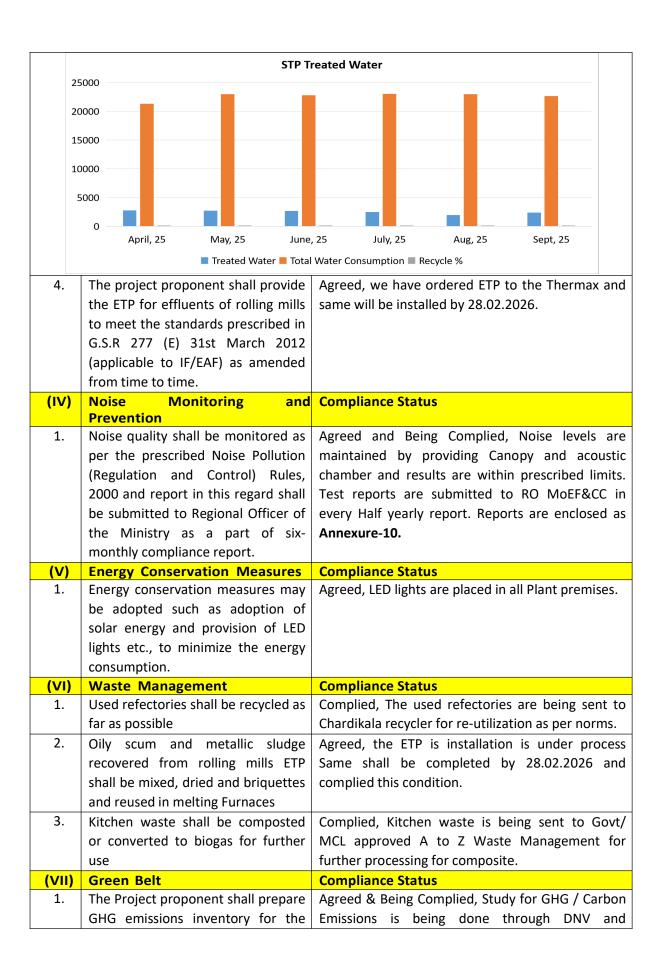
Agreed & Being Complied, Thermax make STP of 100 KLD capacity is installed in Plant and fully operational.

Photographs of STP Plant (100 KLD)



STP TREATED WATER

S. No.	Month	Treated Water	Monthly Water Consumption(in KL)	Recycle %
1	April, 25	2768	21300.19	13.00
2	May, 25	2715	22970.17	11.82
3	June, 25	2670	22813.50	11.70
4	July, 25	2487	23010.37	10.81
5	Aug, 25	1958	22983.43	8.52
6	Sept, 25	2400	22632.36	10.60
	Total	14998	135710.02	11.05



	plant shall submit the program for	Company is very serious about carrying proper
	reduction of the same including	GHG Study. After the calculation/data study GHG
	carbon sequestration including	certificate issued by DNV & same is attached as
	plants	Annexure-11.
(VIII)	Public hearing and Human	Compliance Status
	health Issues	
1.	Emergency preparedness plan	Agreed & Complied, The Company has a proper
	based on the Hazard identification	Disaster Management Plan/ Emergency Plan for
	and Risk Assessment (HIRA) and	plant operations submitted with District
	Disaster Management Plan shall be	Administration & The same is attached as
	implemented.	Annexure-12.
2.	The project proponent shall carry	Complied, Heat Stress Analysis/GTT test is being
	out heat stress analysis for the	done twice a year and PPE's are provided as per
	workmen who work in high	norms in respective work place. The reports
	temperature work zone and provide	enclosed as Annexure-13.
	Personal Protection Equipment	
	(PPE) as per the norms of Factory	
	Act.	
3.	Occupational health surveillance of	Agreed & Already Being Complied, The same is
	the workers shall be done on a	being fully complied and Medical checkup camp
	regular basis and records	and other tests like spirometry, Audiometry,
	maintained.	Routine checkup, RT-PCR, Eye Checkup, etc. are
		being done regularly and all report checked and
		verified by through Chief Medical Officer. Some
		test reports copy as evidence attached herewith as
		Annexure-14.
	Dhataanan	on of Madical Took

Photographs of Medical Test (Spirometry/ Audiometry/ Dental Check-up/Eye Check up)



		Consulting and Consultation of the Consultatio
(IX)	Corporate Social Responsibility	Compliance Status
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.	Agreed and Being Complied and an amount of Rs. 1.27 crore spent on CSR during 1 st April, 2025 to 30 th Sept, 2025. The details along with Photographs attached as Annexure-15 .
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.	Agreed & Complied. We have a well laid Environment Policy duly approved by the Board of directors. Same is enclosed as Annexure-16.
3.	A separate Environment Cell both at the Project and the Company Head quarter level, with qualified	Agreed & complied, The company has a well developed Environment Cell/ team to cater to all requirements. The team comprises of Environment

	personals shall be setup under the	Engineer and Compliance team and EHS Head.
	Control of Senior Executive, who	Copy of same enclosed as Annexure-17.
	-	copy of same enclosed as Affilexure-17.
	will directly to the head of the	
(24)	Organization.	Constitution Class
(X)	Miscellaneous The Desirate angular about male	Compliance Status
1.	The Project proponent shall make	Agreed and same is Complied
	public the Environmental Clearance	
	granted for their project along with	
	the Environmental Clearance	
	conditions and safe guards at their	
	cost by prominently advertising it at	
	least in 2 local newspaper of the	
	district or State, of which one shall	
	be in the vernacular language	
	within 7 days and in addition this	
	shall be displayed in the Project	
	proponent's website permanently.	
2.	The copies of the Environmental	Agreed & Complied, The EC has been submitted in
	Clearance shall be submitted by the	all government offices as specified.
	Project proponent to the Head's of	
	the local bodies, panchayat and	
	municipal bodies in addition to the	
	relevant offices of the government	
	who in turn has to display the	
	saying for 30 days from the date of	
	receipt.	
3.	The project proponent shall	Agreed & Complied, The status of the compliance
	upload the status of compliance	is regularly uploaded on the website on half yearly
	of the stipulated environment	basis. Last report has been submitted 22.05.2025.
	clearance conditions, including	Online Submission of receipt enclosed as
	results of monitored data on their	Annexure-18.
	website and update the same on	Authorate 20.
	half-yearly basis.	
4.	The project proponent shall	Agreed & Complied, The PM10, SO2, NO2, Ambient
"	monitor the criteria pollutants level	results are checked on monthly and half yearly
	namely; PM10, SO2, NOx (ambient	basis and result on same are put on website along
	levels as well as stack emissions) or	with Compliance report. Test report attached as
	critical sectoral parameters.	Annexure-19.
	indicated for the projects and	Timenule 131
	display the same at a convenient	
	location for disclosure to the public	
	-	
	and put on the website of the	
	The project proponent shall submit	Complied Six monthly compliance reports are
5.	The project proponent shall submit	Complied, Six monthly compliance reports are
	six- monthly reports on the status of	being regularly submitted to R.O (MoEF&CC),

	the compliance of the stipulated environmental	Chandigarh and PPCB. Last report has been submitted 22.05.2025. Online Submission of
	conditions on the website of	receipt enclosed as Annexure-18.
	the ministry of Environment,	
	Forest and Climate Change at environment clearance portal.	
6.	The project proponent shall submit	Complied, The Form V for period of 2024-25
	the environmental statement for each financial year in Form-V to the	submitted to PPCB dated 12.09.2025 vide Letter No - VSSL/2025/PPCB/7321. Copy of same attached as
	concerned State Pollution Control	Annexure - 20.
	Board as prescribed under the	
	Environment (Protection) Rules,	
	1986, as amended subsequently and put on the website of the	
	company.	
7.	The project proponent shall inform	Agreed, Expansion shall be completed by
	the Regional Office as well as the	December'2022.
	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.	
8.	The project proponent shall abide	Agreed, The Company is committed for abiding by
	by all the commitments and	all the conditions / commitments made by it in
	recommendations made in the EIA/EMP report, commitment made	EIA/EMP. Same are being done on regular basis.
	during Public Hearing and also that	
	during their presentation to the	
	Expert Appraisal Committee.	
9.	No further expansion or modifications in the plant shall be	Agreed, We agree and accept that, in case of any
	carried out without prior approval	further expansion or modification a prior approval from MoEF&CC will be taken.
	of the Ministry of Environment,	
	Forests and Climate Change	
10	(MoEF&CC).	Agreed West agree to the said said this is
10.	Concealing factual data or submission of false/fabricated data	Agreed , We agree to the said condition
	may result in revocation of this	
	environmental clearance and	
	attract action under the provisions	
	of Environment (Protection) Act, 1986.	
11.	The Ministry may revoke or suspend	Agreed and accepted.

	the clearance, if implementation of	
	any of the above conditions is not	
	satisfactory.	
12.	The Ministry reserves the right to	Agreed
	stipulate additional conditions if	
	found necessary. The Company in a	
	time bound manner shall	
	implement these conditions.	
13.	The Regional Office of this Ministry	Agreed
	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.	
14.	Any appeal against this EC shall lie	Agreed
	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.	