

Annexures

Annexure 1: ToR Letter

F. No. IA-J-11011/44/2004-IA.II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj,
New Delhi – 110003

E-mail: r.sundar@nic.in
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Dated: 3rd December, 2021

To

✓
Shri. Samar Suri,
Head Projects,
M/s. Arcelormittal Nippon Steel India Limited,
Hazira Village, Chorasi Tehsil,
Surat, Gujarat - 394270
Email: Sankara.Subramanian@amns.in

Subject: Expansion of Integrated Steel Plant from 9.6 to 15.6 MTPA (Liquid Steel) by **M/s. Arcelormittal Nippon Steel India Limited** located at Hazira Village, Chorasi Tehsil, District Surat, Gujarat – **Prescribing for Terms of Reference-regarding.**

Sir,

PS

1. This has reference to online application of M/s. Arcelormittal Nippon Steel India Limited made vide proposal no. IA/GJ/IND/231036/2021 dated 06/10/2021 along with the application in prescribed format (Form- I), Copy of Pre-feasibility report, proposed ToRs and ADS reply submitted vide letter dated 09/11/2021 through Parivesh for undertaking detailed EIA study as per EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no 3(a) Metallurgical Industries (ferrous & non-ferrous), 1(d) Thermal Power Plant and 4(b) Coke oven plants under Category "A" of the schedule of the EIA Notification, 2006 and appraised at Central Level.
2. The proposal above cited was initially considered in the 47th meeting of the Re-constituted EAC (Industry-I) held on 28-29th October, 2021 and re-considered in the 48th meeting of the Re-constituted EAC (Industry-I) held on 11-12th November, 2021. The EAC proceedings of the said meetings are given as below:

Details submitted by Project proponent

3. The project of M/s. Arcelormittal Nippon Steel India Limited is located in Hazira Village, Choryasi Tehsil, District Surat, Gujarat is for Expansion of Integrated Steel Plant from 9.6 to 15.6 MTPA (Liquid Steel).
4. Environmental site settings:

S No	Particulars	Details
1	Total land	Total land: 884.88 ha. (about 885 ha)

Terms of Reference for the project titled "Expansion of Integrated Steel Plant from 9.6 to 15.6 MTPA (Liquid Steel) by M/s. Arcelormittal Nippon Steel India Limited located at Hazira Village, Chorasi Tehsil, District Surat, Gujarat"

Page 1 of 18

S.No	Particulars	Details
		<ul style="list-style-type: none"> Industrial: 805 ha. Private: 14.15 ha (applied for acquisition to state government) Forest land 65.73 ha (Stage II FC obtained) <p>For expansion - 186.08 ha</p> <ul style="list-style-type: none"> 65.73 Ha Forest land (Stage II FC obtained) 14.15 Ha (applied for acquisition to state government) 35 Ha material handling area from GMB 71.2 Ha area will be used from existing plant area
2	Existence of habitation & involvement of R & R, if any.	Nil
3	Latitude and Longitude of the project site	Latitude - 21° 6' 43.72''N Longitude - 72° 38' 40.29''E
4	Elevation of the project site	4 - 6 m AMSL
5	Involvement of Forest land if any.	Yes, 65.73 ha. Stage II Forest Clearance Received for 65.73 ha land area. [Stage II FC for diversion of 27.02 ha vide letter no. 6-GJC018/2015-BHO/048 dated 16/03/2021 and diversion of 38.71 ha vide letter no. 6-GJC047/2012-BHO/049 dated 16/03/2021]
6	Water body exists within the project site as well as study area.	<p>Project site: Nil</p> <p>Study area: Arabian sea: 1 Km/ South Tapi River: 0.5 km/ East</p> <p>Details of Ponds Hazira village pond: 2.2km/ South Suvali village pond: 3.3 km/ NNW Mora village pond: 2.7 km/ North Junagam village pond: 1.4 km/ West Bhesan village pond: 12.5 km/ NE Tapi River: 0.5 km/ East Mindhola River tributary: 12.02 km/ SE</p>
7	Existence of ESZ/ESA/ national park/wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area.	Nil.

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Terms of Reference for the project titled "Expansion of Integrated Steel Plant from 9.6 to 15.6 MTPA (Liquid Steel) by M/s. Arcelormittal Nippon Steel India Limited located at Hazira Village, Chorasi Tehsil, District Surat, Gujarat"

5. The existing project was accorded environmental clearance vide no. EC No. J-1/1011/381/2014-IA.II (I) dated 09/03/2016. Consent to Operate for the existing unit was accorded by State Pollution Control Board vide no. and dates as given below:

CTO No.	Date of issue	Validity up to
GPCB/CCA-SRT-1082(5) ID 28839 (Pipe Mill)	07/04/2020	31/12/2024
GPCB/CCA-SRT-1162 (2) ID 22968 (Plate Mill)	07/04/2020	31/12/2024
AWH 103579 (Power Plant)	19/08/2019	31/03/2024
GPCB/CCA-SURAT-1190(6)/ID 14186 (Conarc division)	20/05/2020	31/12/2024
GPCB/CCA-SURAT-340 (15)/ID 20680(HRC Division)	07/04/2020	31/12/2024

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6. The unit configuration and capacity of existing and proposed project along with the implementation status is given as below:

S.No	Plant / Facility	As per EC dated :09.03.2016 (A=A1+A2)							Proposed Expansion (B)		Final after expansion (A+B)		Remarks
		Total (A)		Implemented (A1)		Un-implemented (A2)		As per CTO Capacity	Config	Capacity	Config	Capacity	
		Config.	Capacity	Config	Capacity	Config	Capacity						
1	HBI Plant (DRI Mod I to VI) (in MTPA)	Mod I-IV: 4.0 Mod V-1.98 Mod VI: 1.85	7.83 (-4.0* =3.83)	Mod I-IV: 4.0 Mod V-1.98 Mod VI: 1.85	7.83			7.83	0	0	Mod I-IV: 4.0 Mod V-1.98 Mod VI: 1.85	7.83	* Earlier planning was to remove HBI Modules (1 to 4) totalling 4 MTPA and replace it with Blast Furnace of 3.0 MTPA. This could not be implemented due to fund constraints and legal cases at the NCLT. *Original capacity prior to EC 2016 was 7.83 MTPA only. It is now proposed to maintain this original capacity. CTO has been sanctioned for 7.83 MTPA.
2	Blast Furnace (BF) (in MTPA)	1 x 2.04 (2200 m3) 1 x 3.0	5.04	1 x 2.04	2.04*	1 x 3.0	3.0#	2.04	1 x 0.96* + 2 x 4.0 (~4500 m3 each)	8.96	1 x 3.0 2 x 4.0	11.0	* Existing operational BF of capacity 2.04 MTPA is proposed to be upgraded to 3.0 MTPA. # 1 x 3.0 MTPA couldn't be implemented due to fund constraints and legal cases at the NCLT, now dropped.

Terms of Reference for the project titled "Expansion of Integrated Steel Plant from 9.6 to 15.6 MTPA (Liquid Steel) by M/s. Arcelormittal Nippon Steel India Limited located at Hazira Village, Chorasi Tehsil, District Surat, Gujarat"

S.No	Plant / Facility	As per EC dated :09.03.2016 (A=A1+A2)							Proposed Expansion (B)		Final after expansion (A+B)		Remarks
		Total (A)		Implemented (A1)		Un-implemented (A2)		As per CTO	Config	Capacity	Config	Capacity	
		Config	Capacity	Config	Capacity	Config	Capacity	Capacity					
													2 nos. of new BFs with 4.0 MTPA capacity each is proposed.
3	Sinter Plant	1x 1.48 (1 x 120 m ²) 2 x 3.5 (~ 325 m ² each)	8.48	1 x 1.48	1.48	2 x 3.5	7.0*	1.48	-	-	1x 1.48 (1 x 120 m ²) 2 x 3.5 (~ 325 m ² each)	8.48	* 7.0 MTPA plant could not be implemented due to fund constraints and legal cases at the NCLT. Now, will establish the 7.0 MTPA Plant approved vide 2016 EC. (It will comprise of 02 number plants).
4	Coke Oven (Recovery Type)	1 x 1.20 1 x 1.35	2.55	2 x 59 Ovens	1.35#	-	1.20*	-	4 x 59 Ovens	3.05	2 x 59 Ovens 4 x 59 Ovens	4.4	# Under implementation *1.2 MTPA plant could not be implemented due to fund constraints and legal cases at the NCLT. *2016 EC approved for 2.55 MTPA, AMNSI is proceeding only with 1.35 MTPA since 1.2 MTPA originally secured in 2010 EC has now lapsed.
5	Air Separation Plant (Nm ³ /Hr)	1 X 343 TPD 1 X 257 TPD 1 X 785 TPD 3 X 1714 TPD 1 X 700 TPD (Only oxygen) 1 X 2200 TPD	424,744	1 X 343 TPD 1 X 257 TPD 1 X 785 TPD 3 X 1714 TPD 1 X 700 TPD (Only oxygen)	360,544	1 X 2200 TPD*	64,200*	360,544	-	-	1 X 343 TPD 1 X 257 TPD 1 X 785 TPD 3 X 1714 TPD 1 X 700 TPD 1 X 2200 TPD (Only oxygen)	424,744	* 64200 Nm ³ /hr plant will be established as per 2016 EC
6	SMS-1 (EAF 4 Nos.)	4 x 150 MT Heat size	4.6*	4 x 150 MT Heat size	4.6*			4.6		0	4 x 150 MT Heat size	4.6	*Earlier planning was to remove 4.6 MTPA EAF -4 nos. and replacing with BOF-3 nos. in its place but that could not be implemented due to fund constraints and legal cases at the NCLT. Original capacity prior to EC 2016

Terms of Reference for the project titled "Expansion of Integrated Steel Plant from 9.6 to 15.6 MTPA (Liquid Steel) by M/s. Arcelormittal Nippon Steel India Limited located at Hazira Village, Chorasi Tehsil, District Surat, Gujarat"

S.No	Plant / Facility	As per EC dated :09.03.2016 (A=A1+A2)							Proposed Expansion (B)		Final after expansion (A+B)		Remarks
		Total (A)		Implemented (A1)		Un-implemented (A2)		As per CTO	Config	Capacity	Config	Capacity	
		Config	Capacity	Config	Capacity	Config	Capacity	Capacity					
													was 4.6 MTPA only and it is now submitted to retain this original capacity. CTO has been sanctioned for 4.6 MTPA.
7	SMS-2	4 x 200 MT Heat size	5.0	4 x 200 MT Heat size	5.0		-	5.0		0	4 x 200 MT Heat size	5.0	
8	SMS-3 (BOF-3 nos.)		0						3 x 350 MT Heat size *	6.0	3 x 350 MT Heat size *	6.0	New SMS-3 shop of 6.0 MTPA is proposed. * 2 Working + 1 stand by
	Total SMS		9.6		9.6		-	9.6		6.0		15.6	
9	Corex Plant	2 x 0.85	1.7	2 x 0.85	1.7		-	1.7		-	2 x 0.85	1.7*	Plant will be operated till the proposed expansion is completed. * Thereafter it will be shutdown safely and will be started only in case of any unit going down but maintaining sanctioned production of hot metal.
10	Lime Plant (Lime/Dolomite)	1 x 0.45 (4 x 300 TPD) 1 x 0.48 (3 x 500 TPD)	0.93	1 x 0.45 1 x 0.48	0.93		-	0.93	1 x 0.27* (1 x 200 + 1 x 500 TPD) 1 x 0.8 (4 x 600 TPD)	1.07*	1 x 0.45 1 x 0.48 1 x 0.27* 1 x 0.8	2.0	*0.27 MTPA proposed in ToR 2021. 0.8 MTPA proposed in this expansion.
11	Plate Mill	1 x 1.5	1.5	1 x 1.5	1.5		-	1.5		0	1 x 1.5	1.5	
12	CSP and HRC	1 x 3.5	3.5*	1 x 3.5 1 x 4.5#	8.0*		-	8.0	1 x 6.0	6.0	1 x 3.5 1 x 4.5# 1 x 6.0	14.0	* 3.5 MTPA approved vide 05.07.2010 EC # 4.5 MTPA Approved vide 29-05-2008 EC Total 8.0 implemented, but inadvertently mentioned 3.5 MTPA only in 2016 EC
13	CRM	1 x 1.5	1.5	1 x 1.5 1 x 0.54*	2.04*		-	2.04	1 x 2.2 1 x 1.0	3.2#	1 x 1.5 1 x 0.54* 1 x 2.2 1 x 1.0	5.24	* CTO taken for additional 0.54 MTPA from GPCB.

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S.No	Plant / Facility	As per EC dated :09.03.2016 (A=A1+A2)							Proposed Expansion (B)		Final after expansion (A+B)		Remarks
		Total (A)		Implemented (A1)		Un-implemented (A2)		As per CTO	Config	Capacity	Config	Capacity	
		Config	Capacity	Config	Capacity	Config	Capacity	Capacity					
													#3.2 MTPA proposed in Modification Project, 2021.
14	Pipe mill:												
	H Saw Pipes (in MTPA)	1 x 0.15	0.15	1 x 0.15 1 x 0.15*	0.30*		0	0.3		0	1 x 0.15 1 x 0.15*	0.30	0.15 MTPA as per 2016 EC *CTO taken for additional 0.15 MTPA from GPCB. (0.15+0.15=0.30).
	L Saw Pipes (in MTPA)	1 x 0.33	0.33	1 x 0.33	0.33		0	0.33		0	1 x 0.33	0.33	
15	CPP (in MW)	1 X 475 MW 1 X 31 MW 1 X 40 MW 1 X 10 MW 1 X 48 MW	604	1 X 475 MW 1 X 31 MW 1 X 40 MW 1 X 10 MW	556	1 x 48 MW	48*	556	1 X 475 MW 1 X 31 MW 1 X 40 MW 1 X 10 MW 1 X 48 MW 2 x 100 MW 2 x 25 MW	250#		854	* 48MW to be implemented # 2 x 100 MW surplus fuel gas + 2 x 25 MW TRT.
16	Waste Heat Recovery based Power Plant (in MW)	1 x 25 MW 1 x 20 MW	45	1 X 25 MW	25	1 X 20 MW	20*	25	1x 100 MW CDQ	100	1 x 25 MW 1 x 20 MW 1x 100 MW CDQ	145	*20 MW to be implemented 1 x 100 MW CDQ based
17	Jetty (length in m)	456 m+ 734 m	1190 m	456 m+ 734 m	1190 m	-	-	734 m*	-	-	456 m+ 734 m	1190 m	* 734 and 456 meters capacity was sanctioned in 2006 EC. This was implemented although inadvertently mentioned 734 m only in 2016 EC and CTO also mentioned the same 734m length.

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

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S No	Raw Material	Quantity required per annum			Source	Distance from site (Approx. Kms)	Mode of Transportation
		Existing	Proposed	Total			
1.	DR Grade Pellets	11,823,300	0	11,823,300	AMNSI's Palletization plants located at Vizag and Paradeep	5200/ 5750	Sea Route
2.	BF Grade Pellets	5,400,000	6,759,536	12,159,536			
3.	Calibrated Lump Ore	0	127,660	127,660	NMDC mines in Kirandul, Dist. Dantewada, CG	450+5200	Rail + Sea Route
4.	Iron Ore Fines	185,000	3,942,444	4,127,444	Goa, Odisha NMDC mines	900/5750	Sea Route
5.	Coal-PCI-BF	408,000	2,036,444	2,444,444	RBCT, SA Australia Japan Poland Russia	7680 11053 13231 16044 10245	Sea Route
6.	Coal for Corex	2,770,000	-2,770,000	0			
7.	Metallurgical Coal	1,957,500	4,501,564	6,459,064			
8.	Coke	1,155,000	-1,155,000	0			
9.	BF and Sinter Grade Flux (Limestone + Dolomite + Pyroxenite + Quartzite)	690,000	493,715	1,183,715	Dubai and Oman	2640/ 2200	Sea Route
10.	SMS grade Limestone and Dolomite	1,863,000	2,562,564	4,425,564			

Raw material from Adani port to plant will be transported through 1.3 Km conveyor along the Surat -Hazira state high way. The required Right of Way of around 1.3 ha (1300m x 10 m width) from Revenue Department & state highways will be obtained. The basic scheme for raw material transportation by covered conveyors submitted by M/s. AMNSI. Break bulk cargo (Finished Goods) will be dispatched maximum through existing captive jetty & EBTL terminal. For balance cargo if any, through Adani Port, National highways (NH-6) route will be used. The same has been mentioned in the revised PFR. It is expected to move - 5% of 20 MTPA (-1 MTPA) as break bulk cargo.

8. The water requirement for the project is estimated as 3,815 m³/hr, out of which 3,400 m³/hr. of fresh water requirement will be obtained from the River Tapi and remaining requirement of 600 m³/hr will be recovered from Effluent Treatment Plant. The Permission for drawl of surface water is obtained from Narmada Water Resources Water Supply and Kalpasar Department vide letter no. 248/2021/1444 dated 27th July 2021.
9. The power requirement for the project is estimated as 1573 MW, out of which 810 MW will be obtained from the Captive Power Plant, 243 MW from Third party and 520 MW from

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Page 7 of 18

Grid.

10. The capital cost of the project is Rs. 35,145 Crores and the capital cost for environmental protection measures is proposed as Rs. 1565 Crores. The employment generation from the proposed project / expansion is direct 1750 and indirect 5250.
11. It has been reported by PP that, there is no violation under EIA Notification, 2006/court case/show cause/direction related to the project under consideration.
12. Name of the EIA consultant: M/s. Kadam Environmental Consultants [Sl. No. 20, List of ACOs with their Certificate no. NABET/EIA/1922/RA0138, valid up to 25/05/2022; Rev. 15, October 11, 2021].
13. Proposed Terms of Reference (Baseline data collection period: 15th March, 2021 – 15th June, 2021):

S No	Attributes	Sampling		Remarks
		No. of stations	Frequency	
A. Air				
a.	Meteorological parameters Temperature, wind speed, wind direction, Relative humidity, Rainfall, cloud cover	At Site	Continuous for 12 weeks	-
b.	AAQ parameters PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , NH ₃ , HC, CO	8	24 hrs twice a week at each station spread over the entire season with gaseous samples being changed six times (at 8-hour intervals).	-
B. Noise		8	24 Hrs at each location once only	-
C. Water				
	Surface water/Ground water quality parameters Ground water parameters as per IS 10500 Standard Limits for drinking water Surface water parameter as per Inland Surface Water (CPCB)	8 + 8 (Groundwater + Surface water)	Each sample taken once during the monitoring period	-
D. Land				
a.	Soil quality Porosity, Water Holding Capacity, Permeability, Particle Size Distribution, Texture, Cation Exchange Capacity, SAR, Exchangeable Sodium, Electrical conductivity, pH, Calcium,	8	Each sample taken once only	-

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Page 8 of 18

S No	Attributes	Sampling		Remarks
		No. of stations	Frequency	
	Magnesium, Sodium, Potassium, Organic carbon, Total Nitrogen, Available potassium			
b.	Land Use		10 Km Radius Study area	-
E. Biological				
a.	Aquatic	Aquatic (Phyto, Zoo, Benthos)	10 Km Radius Study area	-
b.	Terrestrial	Terrestrial (Mammals, Avifauna, Herpetofauna)		
F.	Socio-economic parameters	Nearby villages	10 Km Radius Study area	-

Observations of the Committee

14. The EAC noted the following:

- i. TOR is being sought for undertaking EIA study for expansion integrated steel plant from 9.6 to 15.6 MTPA at Hazira Village, Chorasi Tehsil, District Surat, Gujarat.
- ii. The proposal was considered in EAC meeting held on 28-29th October, 2021 in which proposal was deferred for additional information.
- iii. ADS reply submitted by the proponent on 09/11/2021 was found satisfactory except the location of AAQ monitoring stations. PP may carry out AAQ monitoring for another 1 month in the 4 locations in conformity to the wind rose diagram for all the 12 parameters.
- iv. BF 1 is being modified to increase its capacity from 2.01 MTPA to 3 MTPA. Stove waste gas heat recovery shall be proposed under expansion program.

Recommendations of the Committee

15. After deliberations, the Committee recommended the project proposal for prescribing following specific ToRs for undertaking detailed EIA and EMP study in addition to the generic ToR enclosed at Annexure-1 read with additional ToRs at Annexure-2:
 - i. Cumulative impact assessment for the existing integrated steel & power plants and proposed modernization & expansion project shall be carried out including the impact on riverine ecology of the Tapi river.
 - ii. No construction activity/infringement will take place in the flood plain of Tapi river situated in the vicinity of the project site.
 - iii. Status of the Forest clearance for the forest land and the land acquisition details as per MoEF&CC O.M. dated 7/10/2014 shall be submitted.
 - iv. Action plan to develop green belt in 33% of the total project area all along the project boundary with density of 2500 saplings per hectare shall be submitted.
 - v. During dismantling of existing facilities large number of trees are expected to be uprooted. PP shall enumerate the trees to be cut, possible numbers that could be

Terms of Reference for the project titled "Expansion of Integrated Steel Plant from 9.6 to 15.6 MTPA (Liquid Steel) by M/s. Arcelormittal Nippon Steel India Limited located at Hazira Village, Chorasi Tehsil, District Surat, Gujarat"

Page 9 of 18

- translocated and compensatory afforestation to be done (in consultation with DFO). Detail for the same shall be incorporated in the EIA report.
- vi. Total water requirement for existing and expansion project shall be sourced from TAPI River. Raw Water treatment facility shall be installed inside the plant premises. Sludge disposal plan shall be elaborated in EIA report.
 - vii. PP has proposed the use of 75000 KLD treated sewage water from Surat Municipal Corporation to be pumped from Surat to Hazira. Scheme for treated sewage water pumping shall be furnished.
 - viii. Two new BF Gas cleaning process in the proposed expansion will be Dry type and Stove waste gas heat recovery shall be proposed with TRT.
 - ix. Raw material from Adani port to plant will be transported through 1.3 Km conveyor along the Surat-Hazira state high way and the same been marked in the layout. The required Right of Way for the conveyor shall be furnished in the EIA report.
 - x. Traffic study shall be carried out inter-alia including existing road details with traffic load, proposed quantum of material to be transported by sea/rail/road with anticipated vessels/rakes/vehicles details, line source modelling and infrastructure strengthening details etc., These details shall be included in the EIA report.
 - xi. Separate chapter on cyclone/ disaster management shall be prepared and included in the EIA report.
 - xii. Mass balance as well as energy balance for the integrated steel plant shall be submitted.
 - xiii. The issues raised during public hearing and commitment of the project proponent on the same along with time bound action plan to implement it as per MoEF&CC O.M. dated 30/09/2020 shall be clearly provided.
 - xiv. Performance evaluation of the existing pollution control systems shall be carried out and report shall be submitted.
 - xv. Socio-economic survey in the project influence area that is 10 Kms radial coverage from the project site shall be carried out and included as a part of EIA report.
 - xvi. Characteristics of the coal to be used in the steel and power plant shall be submitted along with the EIA report.
 - xvii. Details regarding the existence of mangroves and coral reefs if any, within the study area of the project site along with the conservation plan shall be included in the EIA report.
 - xviii. Action plan to limit the dust emission from all the stacks below 30 mg/Nm³ shall be furnished.
 - xix. Action plan for fugitive emission control in the plant premises shall be provided.
 - xx. Action plan for 100 % solid waste utilization shall be submitted.
 - xxi. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
 - xxii. AAQ modelling shall be done considering proximity to the coast and riverine ecology.
 - xxiii. AAQ monitoring shall be carried out for one-month period at four locations in conformity to the wind rose diagram for all the 12 parameters.
 - xxiv. Comprehensive risk assessment study for the entire steel complex shall be carried out and submitted.

Decision of MoEF&CC

16. The undersigned is directed to inform that Ministry of Environment, Forest and Climate Change has examined the proposal in accordance with the Environment Impact Assessment

Terms of Reference for the project titled "Expansion of Integrated Steel Plant from 9.6 to 15.6 MTPA (Liquid Steel) by M/s. Arcelormittal Nippon Steel India Limited located at Hazira Village, Chorasi Tehsil, District Surat, Gujarat"

Page 10 of 18


(EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the Expert Appraisal Committee (Industry-1) hereby decided to accord above-said specific ToRs, in addition to the standard ToRs and Sector Specific ToRs as enclosed at Annexure I read with additional ToRs at Annexure-2 for carrying out detailed EIA/EMP for the above project.

17. It is requested that the draft EIA Report may be prepared in accordance with the above-mentioned specific ToRs and enclosed generic ToRs and additional ToRs and thereafter further necessary action including conduct of public consultation may be taken for obtaining Environment Clearance in accordance with the procedure prescribed under the EIA Notification, 2006 as amended.
18. The ToRs are valid for a period of four years from date of issue of this letter as per the Ministry's Notification S.O. 751 (E) dated 17/02/2020.
19. This issue with the approval of the Competent Authority.


(Sundar Ramanathan)
Scientist 'E'

Copy to:-

1. Secretary, Department of Environment, Government of Gujarat, Secretariat, Gandhinagar.
2. Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal - 462016.
3. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. Member Secretary, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
5. Chairman, Gujarat State Pollution Control Board, Sector 10-A, Gandhi Nagar - 382043, Gujarat.
6. District Collector, Surat District, Gujarat.
7. Guard File/Record File/Monitoring File.
8. MoEF&CC Website.


(Sundar Ramanathan)
Scientist 'E'

ANNEXURE -1**GENERIC TERMS OF REFERENCE (ToR) IN RESPECT OF INDUSTRY SECTOR**

- 1. Executive Summary**
- 2. Introduction**
 - i. Details of the EIA Consultant including NABET accreditation
 - ii. Information about the project proponent
 - iii. Importance and benefits of the project
- 3. Project Description**
 - i. Cost of project and time of completion.
 - ii. Products with capacities for the proposed project.
 - iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
 - iv. List of raw materials required and their source along with mode of transportation.
 - v. Other chemicals and materials required with quantities and storage capacities
 - vi. Details of Emission, effluents, hazardous waste generation and their management.
 - vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
 - viii. The project proponent shall furnish the requisite documents from the competent authority in support of drawl of ground water and surface water and supply of electricity.
 - ix. Process description along with major equipment and machineries, process flow sheet (Quantitative) from raw material to products to be provided
 - x. Hazard identification and details of proposed safety systems.
 - xi. Expansion/modernization proposals:
 - a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MoEF&CC/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment, Forest and Climate Change as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing /existing operation of the project from SPCB/PCC shall be attached with the EIA-EMP report.
 - b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.
- 4. Site Details**
 - i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.
 - ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places)
 - iii. Co-ordinates (lat-long) of all four corners of the site.

Terms of Reference for the project titled "Expansion of Integrated Steel Plant from 9.6 to 15.6 MTPA (Liquid Steel) by M/s. Arcelormittal Nippon Steel India Limited, located at Hazira Village, Chorasi Tehsil, District Surat, Gujarat"

Page 12 of 18

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

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

- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable).
- ii. Land use map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha).
- iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
- iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon.
- v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area.
- vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

6. Environmental Status

- i. Determination of atmospheric inversion level at the project site and site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. AAQ data (except monsoon) at 8 locations for PM₁₀, PM_{2.5}, SO₂, NO_x, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.

Terms of Reference for the project titled "Expansion of Integrated Steel Plant from 9.6 to 15.6 MTPA (Liquid Steel) by M/s. Arcelormittal Nippon Steel India Limited located at Hazira Village, Chorasi Tehsil, District Surat, Gujarat"

Page 13 of 18

- iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 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.
- iv. Surface water quality of nearby River (60m upstream and downstream) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
- v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC.
- vi. Ground water monitoring at minimum at 8 locations shall be included.
- vii. Noise levels monitoring at 8 locations within the study area.
- viii. Soil Characteristic as per CPCB guidelines.
- ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- x. 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. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xi. Socio-economic status of the study area.

7. Impact Assessment and Environment Management Plan

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be well assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling – in case, if the effluent is proposed to be discharged in to the local drain, then Water Quality Modelling study should be conducted for the drain water taking into consideration the upstream and downstream quality of water of the drain.
- iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum-rail transport shall be examined.
- iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E (P) Rules.
- v. Details of stack emission and action plan for control of emissions to meet standards.
- vi. Measures for fugitive emission control
- vii. Details of hazardous waste generation and their storage, utilization and disposal. Copies of MOU regarding utilization of solid and hazardous waste shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.
- viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A

Terms of Reference for the project titled "Expansion of Integrated Steel Plant from 9.6 to 15.6 MTPA (Liquid Steel) by M/s. Arcelormittal Nippon Steel India Limited located at Hazira Village, Chorasi Tehsil, District Surat, Gujarat"

Page 14 of 18

- detailed plan of action shall be provided.
- ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
 - x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
 - xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
 - xii. Action plan for post-project environmental monitoring shall be submitted.
 - xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8. Occupational health

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

9. Corporate Environment Policy

- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
 - ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
 - iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
 - iv. Does the company have system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report
10. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers

during operation phase.

11. To address the Public Hearing issues, provisions contained under Ministry's Office Memorandum vide F.No. 22-65/2017-IA.III dated 30/09/2020 shall be complied.
12. 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.
13. A tabular chart with index for point wise compliance of above ToRs.
14. The ToRs prescribed shall be valid for a period of three years for submission of the EIA-EMP reports along with Public Hearing Proceedings (wherever stipulated).

The following general points shall be noted:

- i. All documents shall be properly indexed, page numbered.
- ii. Period/date of data collection shall be clearly indicated.
- iii. Authenticated English translation of all material in Regional languages shall be provided.
- iv. The letter/application for environmental clearance shall quote the MOEF&CC file No. and also attach a copy of the letter.
- v. The copy of the letter received from the Ministry shall be also attached as an annexure to the final EIA-EMP Report.
- vi. The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report
- vii. While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MOEF&CC vide O.M. No. J-11013/41/2006-IA, II (I) dated 4th August, 2009, which are available on the website of this Ministry shall also be followed.
- viii. The consultants involved in the preparation of EIA-EMP report after accreditation with Quality Council of India (QCI)/National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA-EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc. Name of the Consultant and the Accreditation details shall be posted on the EIA-EMP Report as well as on the cover of the Hard Copy of the Presentation material for EC presentation.
- ix. ToRs' prescribed by the Expert Appraisal Committee (Industry) shall be considered for preparation of EIA-EMP report for the project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Where the documents provided are in a language other than English, an English translation shall be provided. The draft EIA-EMP report shall be submitted to the State Pollution Control Board of the concerned State for conduct of Public Hearing. The SPCB shall conduct the Public Hearing/public consultation, district-wise, as per the provisions of EIA notification, 2006. The Public Hearing shall be chaired by an Officer not below the rank of Additional District Magistrate. The issues raised in the Public Hearing and during the consultation process and the commitments made by the project proponent on the same shall be included separately in EIA-EMP Report in a separate chapter and summarized in a tabular chart with financial budget (capital and revenue) along with time-schedule of implementation for complying with the commitments made. The final EIA report shall be submitted to the Ministry for obtaining environmental clearance.

ANNEXURE-2**ADDITIONAL ToRs FOR INTEGRATED STEEL PLANT**

1. Iron ore/coal linkage documents along with the status of environmental 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 (PM₁₀ 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 PM₁₀ 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 especially 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.

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 its 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 2: Land Possesion Documents for 65.73 Ha Forest Land



Range Forest Office
Dumas Range
Van Bhavan, GangeshwarMahadev Road
Adajan, Surat



e-mail :- rfodumas@gmail.com

POSSESSION CERTIFICATE

As per the Govt. of India Ministry of Environment & forest, New Delhi's letter No. 6-GJC 047/2012-BHO/049, Dat.16/03/2021 and subsequent orders- 6-GJC 047/2012-BHO/195 dated 13/09/2021 and 6-GJC047/2012-BHO dated 19/1/2022 and Department of Forests and Environment, Government of Gujarat letter vide no. FCA-1012/3-18/11/SF-44/F dated 04/03/2022, the possession of 38.71 ha. Forest land of Survey No.179 paiki of Village Hazira Taluka Choryasi District Surat for the Purpose of setting 300MW Power Plant at Hazira, Dist-Surat is handed Over on Dated 25/03/2022. To ArcelorMittal Nippon Steel India Ltd.

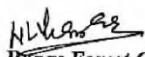
On behalf of Forest Department, the possession of said land is handed over by the Range forest officer Shree Nitin L. Varmora where as the charge of land is taken over by Shree Shailesh I. Patel..... the representative of ArcelorMittal Nippon Steel India Ltd.

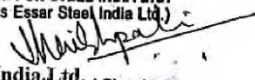
Place: Hazira

Date. 25 /03/2022.

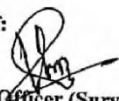
Possession Handed Over By

Possession Handed Over To


Range Forest Officer
Dumas


For ARCELORMITTAL NIPPON STEEL INDIA LTD.
(Formerly Known as Essar Steel India Ltd.)

ArcelorMittal Nippon Steel India Ltd
Authorized Signatory
Hazira, Surat

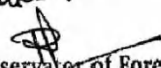
In Presence of:


Range Forest Officer (Survey)


Assistant Conservator of Forests, Surat

TRUE COPY


Assist. Conservator of Forests
Normal swarida

Koushik

Dy. Conservator of Forests
Surat.

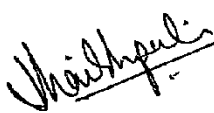
**Annexure
SCHEDULE REFERRED TO IN THE ABOVE AGREEMENT**

Name of Village	Survey No.	Area (In Hect.)
Hazira	179/paiki	38.71
Total		38.71

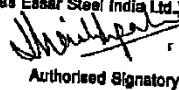
Description & Boundaries :-

- 1. South : 179 / Pt
- 2. North : 179 / Pt
- 3. East : Revenue S. No. 60, 63, 64, 70, 71, 72
- 4. West : 179 / Pt

Signed by: Shailesh I. Patel,



For ARCELORMITTAL NIPPON STEEL INDIA LTD.
(Formerly Known as Essar Steel India Ltd.)

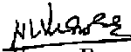

 Authorized Signatory

ArcelorMittal Nippon Steel India Ltd.
Hazira, Surat

JGM - Head of
Corporate Relations

In the presence of: 1. Naresh G. Tandel
Section Engineer
AM/NS India


Signed by:



 Range Forest Officer
 Dumas

In the Presence of: 1. Range Forest Officer (Surveyor)


 2. Assistant Conservator of Forests, Surat

TRUE COPY


 Assist. Conservator of Forests
 Normal

Countersigned

 Dy. Conservator of Forests
 Surat.



Range Forest Office
Dumas Range
Van Bhavan, GangeshwarMahadev Road
Adajan, Surat



e-mail :- rfodumas@gmail.com

POSSESSION CERTIFICATE

As per the Govt of India, Ministry of Environment, Forest and Climate Change order no. 6-GJC 018/2015-BHO/048, dated 16/03/2021 and subsequent orders- 6-GJC 018/2015-BHO/194 dated 13/09/2021 and 6-GJC018/2015-BHO dated 19/1/2022 and Department of Forests and Environment, Government of Gujarat letter vide no. FCA-1014/10-07/14/SF-60/F dated 04/03/2022, the possession of 27.02 ha Reserved Forest land bearing Survey No. 179/pt at Village- Hazira, Taluka- Choryasi for construction of Raw Material Facilities is handed Over on Dated 24/03/2022 To ArcelorMittal Nippon Steel India Ltd.

On behalf of Forest Department, the possession of said land is handed over by the Range forest officer Shree Nitin L. Varmora where as the charge of land is taken over by Shree Shailesh I. Patel the representative of ArcelorMittal Nippon Steel India Ltd.

Place: Hazira

Date: 24/03/2022.

Possession Handed Over By

Nitin L. Varmora
Range Forest Officer
Dumas

Possession Handed Over To Shailesh I. Patel
For ARCELORMITTAL NIPPON STEEL INDIA LTD.
(Formerly Known as Essar Steel India Ltd.)

ArcelorMittal Nippon Steel India Ltd.
Hazira, Surat Signatory

In Presence of:

[Signature]
Range Forest Officer (Survey)

[Signature]
Assistant Conservator of Forests, Surat

TRUE COPY
[Signature]
Assist, Conservator of Forests
Normal Conservator
[Signature]

[Signature]
Dy. Conservator of Forests
Surat.

**Annexure
SCHEDULE REFERRED TO IN THE ABOVE AGREEMENT**

Name of Village	Survey No.	Area (In Hect.)
Hazira	179/paiki	27.02
Total		27.02

Description & Boundaries :-

- 1. South : 179/Pt
- 2. North : Boundary of Shivzampus
- 3. East : Revenue S.No. 2, 7, 8, 59 & 60
- 4. West : 179/Pt

Signed by: Shqilesh I. Patel

For ARCELORMITTAL NIPPON STEEL INDIA LTD.
(Formerly known as Essar Steel India Ltd.)

ArcelorMittal Nippon Steel India Ltd.
Hazira, Surat Authorized Signatory

JGM- Land & Corporate
Return

In the presence of: 1. Navresh G. Tandel
(Section Engineer)
AM/NS India.

Signed by:

Milhanee
Range Forest Officer

Dumas

In the Presence of: 1. Range Forest Officer (Surveyor)
2. Assistant Conservator of Forests, Surat

Countersigned
Dy. Conservator of Forests
Surat.

TRUE COPY

Assist. Conservator of Forests
Normal *swach*



ok

Date: 07/04/2022

To,
The Deputy Conservator of Forest,
Surat Division
Surat

Subject: Change in land use of diverted Forest land 38.71 Ha. Under clause 5.6(a) of the FCA, 1980

Dear Sir,

As you are aware, erstwhile Essar Steel India Ltd. had applied for diversion of 38.71 Ha reserved and unclassified Forest Land for setting up 300 MW Power Plant for use in their steel-making expansion program as specified in our application.

Essar Steel India Ltd. (ESIL) underwent a successful corporate insolvency resolution process under the Insolvency & Bankruptcy Code, 2016. Through the said process, a resolution plan submitted by ArcelorMittal India Private Limited (AMNS) was approved by the Committee of Creditors of ESIL on 27.03.2019. The Resolution Plan was implemented with effect from 16.12.2019. Subsequent to the implementation of the Resolution Plan, the name of the company was changed to "ArcelorMittal Nippon Steel India Limited" with effect from 08.01.2020.

Requisite formal approvals (stage-II) for the project have been granted by MoEF & CC vide letter No.6-GJC047/2012-BHO/049 dated. 16-03-2021. Pursuant to approval of Resolution plan our request of name change from ESIL to AMNS was approved on 19-01-2022 by MoEF & CC. Subsequently, Range Forest Officer, Dumas has handed over the 38.71 Ha Forest land to the company on 25/03/2022.

Now, ArcelorMittal Nippon Steel India Limited has planned to finally implement the expansion of steel-making capacity from 9.6 MTPA to 15.6 MTPA with significant investment. With the advent of new technologies and change in steel market dynamics the company had to change the end product mix. Also, renewed emphasis on clean energy is also coming to bear on all expansion projects. Accordingly, there has been a change in the configuration of the expansion plan on 38.71 Ha as per the attached layout. Details of the Earlier Plan by ESTIL and proposed plan by AMNS are as under. However, the project (expansion of steel-making capacity) and user agency remains the same on the said diverted forest. Detailed layout indicating proposed development on said land is attached herewith for ready reference.

Sr. No.	Particulars	Earlier Plan by ESTIL	Proposed Plan by AMNS
1	38.71 Ha	Setting up 300 MW Power Plant including Cooling water system, generator transformer, electrical switch yard and distribution arrangement, road, green belt and misc.	Setting up Blast Furnace, Steel Melt Shop, Transport and Utilities including railways, ASU Plant, roads, drains, water pipeline, gas pipelines, green belt, transmission lines, telecom/data transmissions lines, civic facilities, cooling water system, generator, electric switch yard etc for integrated steel plant

ArcelorMittal Nippon Steel India Limited
(Formerly Essar Steel India Limited)

Registered Office: 27th km, Surat-Hazira Road,
Hazira, Surat 394 270 Gujarat, India
CIN U27100GJ1978FLC013787

T +91 0261-668 9200
E contact@amns.in
W www.amns.in

A joint venture between ArcelorMittal and
Nippon Steel Corporation

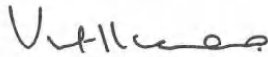


Further, we undertake to abide by all the conditions stipulated in the formal approvals & name change approvals and any additional conditions as imposed by MoEF & CC.

In view of the above, you are requested to grant permission for change of land use of the diverted forest land in the aforesaid formal approvals at the earliest so that we can commence the expansion work as mentioned above.

Thanking You.

For, Arcelor Mittal Nippon Steel India Ltd.

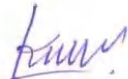


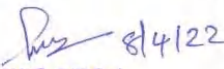
(Authorized Signatory)

- Encl:**
1. Formal approvals for diversion of forest land.
 2. Change of Name Approval.
 3. Layout plan indicating proposed development.

Copy to:

1. Nodal Officer & APCCF - Land, Gandhinagar
2. Chief Conservator of Forest, Surat Circle


ટપાલ કારકુન
નાયબ વન સંરક્ષકશ્રીની કચેરી
સુરત વન વિભાગ, સુરત. ૪/૫/૨૨


ટપાલ કારકુન
મુખ્ય વન સંરક્ષકશ્રીની કચેરી
સુરત વર્કિંગ, સુરત.
વન ભવન, ગંગેશ્વર મહાદેવ રોડ,
શિવાજી ચોક, અડાજણ,
સુરત-૩૯૫૦૦૯.

AM/NS INDIA

%

Date: 07/04/2022

To,
The Deputy Conservator of Forest,
Surat Division
Surat

Subject: Change in land use of diverted Forest land 27.02 Ha. Under clause 5.6(a) of the FCA, 1980

Dear Sir,

As you are aware, erstwhile Essar Steel India Ltd. had applied for diversion of 27.02 Ha reserved and unclassed Forest Land for Construction of Raw material handling facilities and utilities for use in their steel-making expansion program as specified in our application.

Essar Steel India Ltd. (ESIL) underwent a successful corporate insolvency resolution process under the Insolvency & Bankruptcy Code, 2016. Through the said process, a resolution plan submitted by ArcelorMittal India Private Limited (AMNS) was approved by the Committee of Creditors of ESIL on 27.03.2019. The Resolution Plan was implemented with effect from 16.12.2019. Subsequent to the implementation of the Resolution Plan, the name of the company was changed to "ArcelorMittal Nippon Steel India Limited" with effect from 08.01.2020.

Requisite formal approvals (stage-II) for the project have been granted by MoEF & CC vide letter No.6-GJC018/2015-BHO/048 dated 16-03-2021. Pursuant to approval of Resolution plan our request of name change from ESIL to AMNS was approved on 19-01-2022 by MoEF & CC. Subsequently, Range Forest Officer, Dumas has handed over the 27.02 Ha Forest land to the company on 24/03/2022.

Now, ArcelorMittal Nippon Steel India Limited has planned to finally implement the expansion of steel-making capacity from 9.6 MTPA to 15.6 MTPA with significant investment. **With the advent of new technologies and change in steel market dynamics the company had to change the end product mix. Also, renewed emphasis on clean energy is also coming to bear on all expansion projects. Accordingly, there has been a change in the configuration of the expansion plan on 27.02 Ha as per the attached layout. Details of the Earlier Plan by ESTIL and proposed plan by AMNS are as under. However, the project (expansion of steel-making capacity) and user agency remains the same on the said diverted forest. Detailed layout indicating proposed development on said land is attached herewith for ready reference.**

Sr. No.	Particulars	Earlier Plan by ESTIL	Proposed Plan by AMNS
1	27.02 ha	Construction of Raw material handling facilities and utilities including Conveyor and Green belt	Setting up Steel Melt Shop (part) Hot Strip Mill, Transport and Utility including railways, roads, drains, water pipeline, gas pipelines, green belt, transmission lines, conveyors, telecom/data transmissions lines, civic facilities, etc for integrated steel plant

ArcelorMittal Nippon Steel India Limited
(Formerly Essar Steel India Limited)

Registered Office: 27th km, Surat-Hazira Road,
Hazira, Surat 394 270 Gujarat, India
CIN U27100GJ1976FLC013787

T +91 0261-668 9200
E contact@amns.in
W www.amns.in

A joint venture between ArcelorMittal and
Nippon Steel Corporation

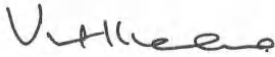
 ArcelorMittal  NIPPON STEEL

Further, we undertake to abide by all the conditions stipulated in the formal approvals & name change approvals and any additional conditions as imposed by MoEF & CC.

In view of the above, you are requested to grant permission for change of land use of the diverted forest land in the aforesaid formal approvals at the earliest so that we can commence the expansion work as mentioned above.

Thanking You.

Arcelor Mittal Nippon Steel India Ltd.

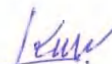


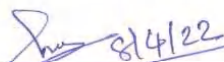
(Authorized Signatory)

- Encl:**
1. Formal approvals for diversion of forest land.
 2. Change of Name Approval.
 3. Layout plan indicating proposed development.

Copy to:

Nodal Officer & APCCF - Land, Gandhinagar
Chief Conservator of Forest, Surat Circle.


ટપાલ કારકુન
મુખ્ય વન સંરક્ષકશ્રીની કચેરી,
સુરત વન વિભાગ, સુરત. 8/4/22.


ટપાલ કારકુન
મુખ્ય વન સંરક્ષકશ્રીની કચેરી
સુરત વન વિભાગ, સુરત.
વન ભવન, ગંગેશ્વર મહાદેવ રોડ,
શિવાજી ચોક, અમડાવાડા,
સુરત-૩૯૫૦૦૯.

Stage I Forest Clearance for 20.76 Ha Land



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण एवं वन मंत्रालय
MINISTRY OF ENVIRONMENT & FORESTS

286

क्षेत्रीय कार्यालय, पश्चिम क्षेत्र,
Regional Office, Western Region,
"केन्द्रीय पर्यावरण भवन"
"Kendriya Paryavaran Bhavan"
लिंक रोड नं०-३, Link Road No. 3
E-5, रविशंकर नगर/Ravi Shankar Nagar,
भोपाल (म०प्र०)/Bhopal-462016 (M.P.)
फोन-0755-2466525, 2463102 (Fax), 2465496
अणुडाक /E-mail: apccfbhopal@gmail.com

No: 6-GJC 019/2011-BHO/ 950

dated 08/06/2013

To,

The Principal Secretary,
Govt. of Gujarat,
Forest and Environment Department,
14/8, Sardar Bhawan,
Sachivalaya, Gandhinagar.

Sub: Diversion of 20.76 ha reserved forest land for construction of housing accommodation and allied employees infrastructure facilities in Village-Hazira (Suvali) in favour of M/s Essar Steel Ltd in Ahmedabad District of Gujarat.

Sir,

I am to invite reference to your letter No. FCA-1009 (10-03) S.F-92-F dated 24/02/2011, letter No. FCA- 1009/10-03/SF-92/F, letter No. FCA/29/A/577-78/11-12 dated 26/7/2011, letter of even dated 05/08/2011 and letter dated 04/05/2013 on the subject cited, seeking prior approval of the Central Government under Section-2 of the Forest (Conservation) Act, 1980.

After careful consideration of the proposal of the State Government, the undersigned is directed to convey that the Central Government hereby agrees in-principle for diversion of 20.76 ha Reserved Forest land for construction of housing accommodation and allied employees infrastructure facilities in Village-Hazira (Suvali) in favour of M/s Essar Steel Ltd in Ahmedabad District, subject to the following conditions:-

- 1.. The legal status of the forest land shall remain unchanged.
- 2 (a) Compensatory afforestation shall be taken up by the Forest Department over 20.76 ha non-forest land Survey No. 258/3/P 23, 24, 33, 38, 39P, Village- Sanala, Taluka-Palitana, District- Bhavnagar at the cost of the User Agency.
(b) The non forest land shall be transferred and mutated in favour of the Forest Department.
(c) The non-forest land shall be notified as Reserved Forest.
- 3.. The Penal compensatory afforestation over 41.52 ha. of degraded forest land Compartment/ Survey No. 219, Forest Division-Vyara, Village- Kanji, Taluka- Songadh, District- Tapi will be raised at the cost of User Agency.
4. The cost of compensatory afforestation and Penal afforestation shall be deposited in advance at prevailing wage rates with the Forest Department by the User Agency.
5. a) The User Agency will provide 110 ha of non-forest land in "Lion Corridor" area, suitable as Lion habitat in Village- Sanada, Ta- Palitana, District-Bhavnagar.
(b) The non forest land shall be transferred and mutated in favour of the Forest Department.
(c) The non-forest land shall be notified as Reserved Forest.

08/06/13

Contd....2

-2-

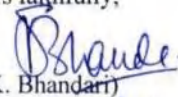
6. As a CSR the User Agency will deposit 2.5 times of the market value prevailing in 2006 for the area in "Lion Conservation Society".
7. (a) The State Government shall charge the "Net Present Value"(NPV) for the 20.76 ha of forest land to be diverted under the proposal from the User Agency as per the orders of the Hon'ble Supreme Court of India dated 30/10/2002, 01/08/2003, 28/03/2008 and 09/05/2008 in IA-566 in W.P. (Civil) No. 202/1995 and as per the guidelines issued by the Ministry vide letters No.5-1/1998-FC (Pt.II) dated 18/09/2003, as well as letter No.5-2/2006-FC dated 03/10/2006 and 5-3/2007-FC dated 05/02/2009 in this regard.
(b) Additional amount of NPV of diverted forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India on receipt of the report from the Expert Committee, shall be charged by the State Government from the User Agency, which shall furnish an undertaking to this effect.
8. All the funds received from the User Agency under the project shall be transferred to the Ad-hoc Compensatory Afforestation Fund Management & Planning Agency (CAMPA) in Savings Bank A/c No. (CAF Gujarat) SB 01025208 Corporation Bank, Lodhi Complex, New Delhi 110 003.
9. The User Agency will obtain clearance under the provisions of ST & OTFD (Recognition of Forest Rights) Act, 2006 as may be applicable, before the final approval. A certificate to the effect that all claims and rights over the proposed forest land have been settled will be forwarded to this office by the State Govt. before the final approval.
10. a) Demarcation of the area shall be done on ground at the project cost using four feet high RCC pillars with Serial Numbers, forward and back bearing and distance from pillar to pillar.
b) At the cost of User Agency, the area of compensatory afforestation will also be fenced, if demanded by the State Forest Department.
11. No tree felling will be allowed.
12. The forest land shall not be used for any purpose other than what is specified in the project proposal.
13. All statutory Acts and rules made thereunder applicable to the project have to be strictly followed.
14. Any other condition, which the Central Government may stipulate.

After receipt of the compliance report on fulfilment of condition Nos 2(b), 4, 5 (b),6, 7, 8 and 9 from the State Government, proposal will be considered for final approval under Section – 2 of the Forest (Conservation) Act, 1980 by this office.

Any order for transfer of forest land to user agency shall not be issued by the State Government till formal approval order for diversion of forest land is issued by the Regional Office, MoEF, Bhopal.

Yours faithfully,

ok



(S.K. Bhandari)

Chief Conservator of Forests

Contd....3

-3-

207

Copy to :-

- 1.. The Director, ROHQ, Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, Lodi Road, New Delhi – 110003.
2. The Addl. Principal Chief Conservator of Forest and Nodal Officer (Forest Conservation) Act, Aranya Bhavan, Block No. A/3, Near "Ch" Circle, Opposite St. Xaviers High School, Sector-10A, Gandhinagar (Gujarat).
3. The Dy. Conservator of Forests, Vyara Forest Division, District-Ahmedabad, Gujarat.
4. The Dy. Conservator of Forests, Bhavnagar Forest Division, District- Bhavanagar, Gujarat.
- 5.. M/s Essar SEZ Hazira Ltd, ESSAR House 11, K.K. Marg, Mahalaxmi, Mumbai-4000 034.
- 6.. Order File.

OK



(S.K. Bhandari)
Chief Conservator of Forests

Annexure 3: Adani Support letter for RM Transportation



Ports and Logistics

AHPL/AMNS/21-22/0304
04 March 2022

To,
ArcelorMittal Nippon Steel India Limited
27 Km Surat Hazira Road, Hazira, Surat
Surat, Gujarat -394270

Name: Mr. Ashutosh Mathur, Head Ports & Chartering
Email: ashutosh.mathur@amns.in

Sub: Storage and Handling of 25 million MTPA of Dry Bulk and Break Bulk Cargo of ArcelorMittal Nippon Steel Plant at Hazira Port.

Ref: Our Letter dated 14th Sep 2021

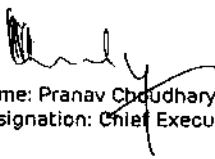
Dear Sir,

In continuation to our earlier Letter dated 14th Sep 2021 and various discussion for your steel Plant cargo requirement, this is to inform you that we can handle your increased cargo handling requirement.

We hereby give our In-Principle acceptance to perform handling and storing of your 25 million MTPA bulk cargo such as Iron ore, Coal, Coke, Limestone, Steel Slag, BF slag etc. and Break bulk Products such as Steel Coils, Plates, Pipes etc required for the steel plant.

We will work on the Commercial Terms and Conditions and finalise the Agreement for Cargo handling and Storage Requirement for your Steel Plant expansion at the appropriate time when your plant expansion takes place.

Yours Sincerely
For Adani Hazira Port Limited

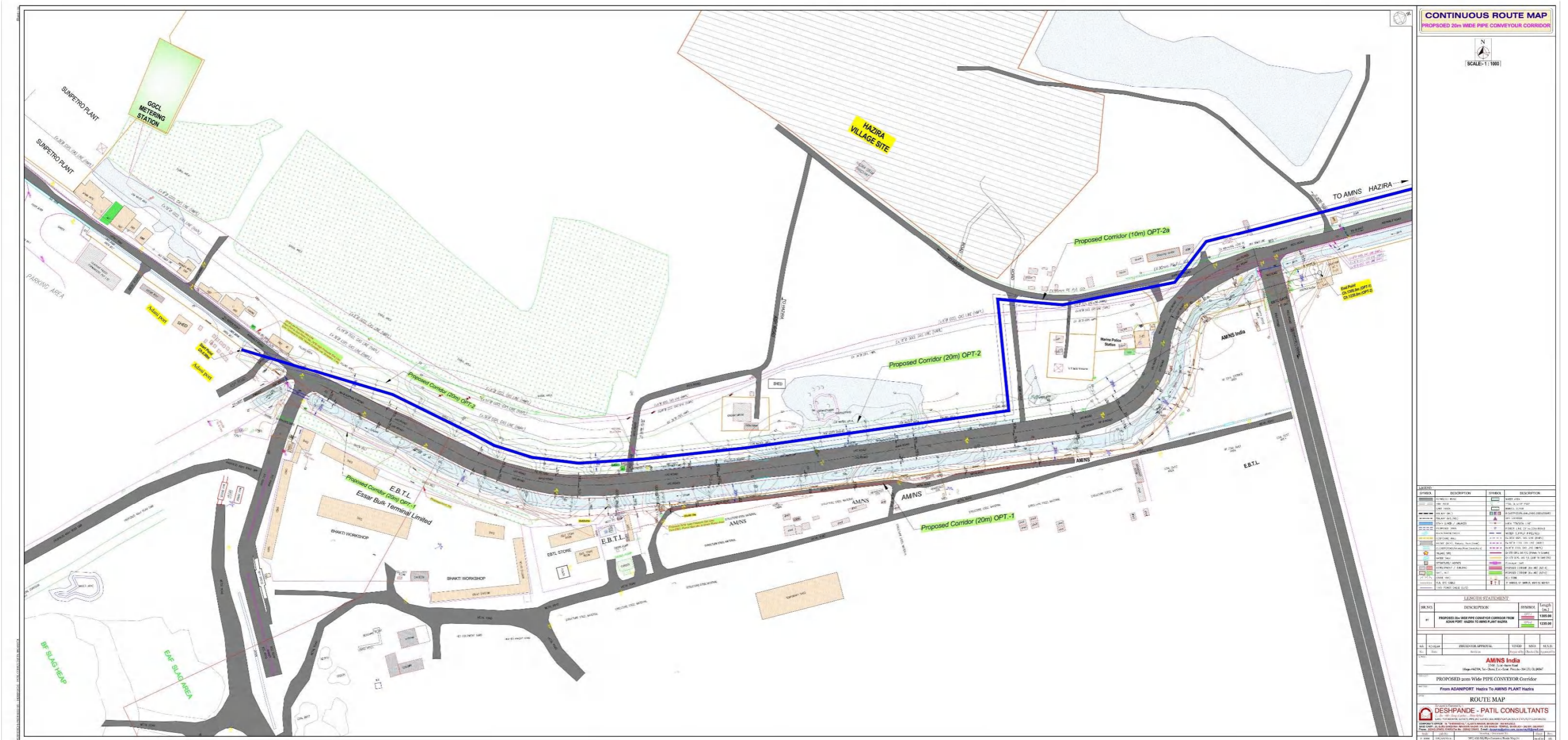

Name: Pranav Choudhary
Designation: Chief Executive Officer

Adani Hazira Port Ltd
At & PO Hazira
Choryashi
Surat 394 270
Gujarat, India
CIN: U45209GJ2009PTC058789

Tel +91 261 220 7780
Fax +91 261 220 7777
Info@adani.com
www.adaniports.com

Registered Office: Adani Corporate House, Shantigram, Nr Valshna Devi Circle, S G Highway, Khodiyar, Ahmedabad 382 421, Gujarat, India

Annexure 4: Layout showing corridor of conveyor belt for Transportation



AM/NS INDIA

Reference: AMNSI / R&B / 21-22 / 1101

Date: 10th January 2022

To,
The Superintending Engineer,
Road and Building Department,
1st Floor, R & B Building,
Opp. Dutch Garden, Nanpura, Surat - 395001

Kind Attn: Mr. A. G. Vasava - Superintending Engineer

Sub: Seeking ROW / NOC for installing conveyor beside old Surat-Hazira Road from Adani Port to AMNSI Plant at Hazira

Respected Sir,

ArcelorMittal Nippon Steel India Ltd (AMNSI) owns and operates a fully integrated steel plant at Hazira, Gujarat. AMNSI currently producing 7.35 MTPA of steel from a plant of 9 MTPA capacity. Further, AMNSI has embarked on a journey to expand its capacity at Hazira plant from present level to 14 MTPA of steel by investing INR 35000Cr.

With this proposed mega expansion, AMNSI is required to handle bulk cargo from current level of 25 MTPA to approx. 45 MTPA. Presently 25 MTPA is being handled by captive port and for additional 20 MTPA of bulk cargo handling, it is arranged through neighboring Adani Port facility. Carting such huge volume through road will severely impact existing road infrastructure in this area and unsafe too. Considering this, it is proposed to install a state of the art conveyor system to transport bulk cargo from Adani Port to AMNSI plant. It will also be an environment friendly and safe approach of handling bulk cargo. A 10 m (max) wide corridor parallel to old Surat Hazira Road would be required to install this conveyor.

ઉપરોક્ત કાર્ય
અધિકારક ઈજનેર
સુરત (મા X મ) વર્કી,
દયાળજી બાગ સામે,
સુરત - ૩૯૫ ૦૦૧.

Received dtd. 12/1/22
A
C
(105. to SE

ArcelorMittal Nippon Steel India Limited
(Formerly Essar Steel India Limited)

Registered Office : 27th km, Surat-Hazira Road,
Hazira, Surat 394 270 Gujarat, India
CIN U27100GJ1976FLC013787

T +91 261 668 9200
E contact@amns.in
W www.amns.in

A joint venture between ArcelorMittal and
Nippon Steel Corporation


ArcelorMittal


NIPPON STEEL

AM/NS INDIA

The conveyor will mainly transport Limestone/ Coke/ Coal/ Palettes etc. for Steel manufacturing process. This Elevated conveyor will be approx. 1.235 km in length and will cross Surat-Hazira Road at two locations, first in front of Adani gate while coming out from Adani Port Premises and second opposite to Hazira Marine police station to take the conveyor into the AMNSI material handling yard, detail of which are as per the attached layout – DPC/AM/NS/Pipe Conveyor/Route Map/01.

For the above-mentioned purpose, we earnestly seek your support and request you to grant us the Right of Way for installing the conveyor. We will be highly obliged and will work on this following your instructions / guidelines.

We thank you in anticipation.

Yours Faithfully,

For, Arcelor Mittal Nippon Steel India Limited

Rajiv Bhatnagar
Executive Director - Projects
AMNS India Ltd.
Hazira, SURAT



કોર્પોરેશન કચેરી
અધિકારી ઈસ્ટેટ
સુરત (૫૧ X ૫) વર્ગના
કચાણાણ બાજુ સુરત,
સુરત - ૩૯૫ ૦૦૧.
Received Htd. 12/01/22
Amn (102)

Enclosures:

- 1. Route Map - DPC/AM/NS/Pipe Conveyor/Route Map/01

2

ArcelorMittal Nippon Steel India Limited
(Formerly Essar Steel India Limited)
Registered Office : 27th km, Surat-Hazira Road,
Hazira, Surat 394 270 Gujarat, India
CIN U27100GJ1976FLC013787

T +91 261 668 9200
E contact@amns.in
W www.amns.in

A joint venture between ArcelorMittal and
Nippon Steel Corporation



Annexure 5: Power Permission Letter

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(भारत सरकार का उद्यम)
POWER SYSTEM OPERATION CORPORATION LIMITED
(A Government of India Enterprise)



पश्चिम क्षेत्र भार प्रेषण केन्द्र

एफ-3, सेन्द्रल रोड, एम्.आई.डी.सी. एरिया, मरोल, अन्धेरी (पूर्व), मुंबई - 400 093.
दूरभाष : 022-28202691 • फैक्स : 022-28235434, 28202630 • ई-मेल : wrldc@posoco.in
WESTERN REGIONAL LOAD DESPATCH CENTRE
F-3, Central Road, MIDC Area, Marol, Andheri (East), Mumbai – 400 093.
Phone : 022-28202691 • Telefax : 28235434, 28202630 • E-mail : wrldc@posoco.in
CIN : U40105DL2009GO1188682

" Standing Clearance"Ref No. WRLDC/MO/1016/21-22/Q4/04Dated: 28.12.2021

- 1 Name of the RLDC issuing Standing Clearance : WRLDC
- 2 Region : Western Region
- 3 Name of the Entity : ARCELOR MITTAL NIPPON STEEL INDIA LTD. (AMNSIL)
- 4 Status of Entity (e.g. ISGS/State Utility/ CPP/ IPP/ Bulk Consumer/Others) : Regional Load Entity
- 5 If Generator, then Type of Generator (RE or Non-RE) : Not applicable
- 6 Point(s) of Connection : 220KV EPTCL Hazira
- 7 Max. MW ceiling allowed for Injection* : 0
- 8 Max. MW ceiling allowed for Drawal* : 700
(* RLDCs may specify different MW ceilings for different time blocks, if required.)
- 9 Validity Period : **RTC From 01.01.2022 To 31.03.2022**

10. Transmission losses (Regional Transmission Losses)

	Whether Applicable or not (Yes/No)	ISTS Losses
Regional Transmission Losses	Yes	As per CERC Sharing Regulation 2020

11. Transmission Charges (Regional Transmission Charges)

	Whether Applicable or not (Yes/No)	ISTS Charges
Regional Transmission Charges	Yes	As per CERC Sharing Regulation 2020

स्वहित एवं राष्ट्र हित में ऊर्जा बचावें

Save Energy for Benefit of Self and Nation

पंजीकृत कार्यालय : बी-9, कुतब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली-110 016 दूरभाष : 011-26560121 फैक्स : 26601081
Registered Office : B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi - 110 016. Tel.: 011-26560121 Fax : 26601081

Terms and Conditions:

- a) The above limit shall be honored in case of simultaneous trading through multiple exchanges.
- b) It needs to be ensured by M/s AMNSIL that the maximum schedule contracted considering all LTA/MTOA/STOA (Collective & Bilateral) transactions should not exceed the above mentioned quantum in case of purchase of power.
- c) All trades/contracts to be done as per applicable CERC regulations/procedures/orders. Quantum of trades would be restricted to margins available over the transmission system, in case of corridor constraints.
- d) For renewal of the standing clearance, M/s AMNSIL shall approach WRLDC at least one week prior to the expiry of the standing clearance, with a request for renewal and affidavit, depicting the maximum quantity desired to be traded in Short Term market.
- e) While contracting any trade using this standing clearance, M/s AMNSIL needs to ensure that no PPAs are being breached.
- f) WRLDC possesses the right to rescind the standing clearance in case of emergency of any adverse situations / detection of undesired gaming or conditions/new developments which may warrant the same for preservation of Grid safety/security or complaints regarding breach of PPAs.
- g) M/s AMNSIL shall be responsible for timely payment of dues into the Regional Pool Accounts and WRLDC Fees & Charges account well within the due dates.

Place : Mumbai
Date : 28.12.2021



Name : S. Usha
Designation: Sr. General Manager (MO & Regulatory)
Phone No: 9869404458

Copy to: 1. VP (Market Operation) PXIL, Mumbai
2. Director (Market Operation) IEXL, New Delhi
3. CGM (Market Operation) NLDC, New Delhi

Annexure 6: Water Permission letter

NARMADA WATER RESOURCES WATER SUPPLY AND KALPSAR DEPARTMENT

નર્મદા, જળસંપત્તિ, પાણી પુરવઠા અને કલ્પસર વિભાગ

Office of the Executive Engineer,
K.R.B.C.Division, Surat

Sinchai Bhavan, 1st Floor

Near Lourdes Convent bus stop

Athwalines Surat-395001

Tel. (0261)- 2669048

Fax- (0261)-2667494

E-mail :krbcdn@gmail.com

કાર્યપાલક ઇજનેરશ્રીની કચેરી, કા. જ.કાં

નહેર વિભાગ, સુરત.

સિંચાઇ ભવન, પહેલો માળ

લુડ્ડા કોનવેન્ટ સ્કૂલ બસ સ્ટોપની બાજુમાં,

અઠવાલાઇન્સ, સુરત-૩૯૫૦૦૧

ટેલીફોન નં- (૦૨૬૧) ૨૬૬૯૦૪૮

ફેક્સ નં- (૦૨૬૧) ૨૬૬૭૪૯૪

ઇ-મેઇલ -krbcdn@gmail.com

જા.નં.કાજકાનવિ/પીબી-૪/રાંદેર/ AMNS India Ltd/ Steel Plant Expansion/ Future water

requirement/ 7.35 MTPA to 18 MTPA/ NOC/Environment Clearance/વશી-૨૪૮ /૨૦૨૧ /૧૪૪૪

તા. /૦૭/૨૦૨૧

27 JUL 2021

પ્રતિ,

AMNS India Ltd,
Hazira,
Surat.

વિષય :- Intimation of Future water requirement with steel Plant Expansion

અનુસંધાન :- (૧) આપની તા.૨૯/૦૪/૨૦૨૧ ના પત્ર ક્રમાંક - AMNSI/KRBC/21-22/001

ઉપરોક્ત વિષય અન્વયે જણાવવાનું કે આપની કંપનીનું સરકારશ્રી સાથે વર્ષ ૨૦૨૧-૨૦૨૪ સુધી બિનખેતી વિષયક હેતુસર ૪૫ MGD પાણી આપવાનો કરાર થયેલ છે. જે મુજબ કંપની હાલમાં પાણી નો ઉપાડ કરે છે. સન્દર્ભ હેઠળના પત્રથી આપના દ્વારા જણાવેલ છે કે AMNS India Ltd કંપની દ્વારા તેમના હયાત સ્ટીલ પ્લાન્ટનું વિસ્તુતીકરણ કરી પ્લાન્ટની ક્ષમતા ૧૮ MTPA કરવા માંગે છે. સદર વિસ્તુતીકરણ માટે કંપનીને વર્ષ ૨૦૩૦ સુધી ૮૭ MGD પાણીની જરૂરીયાત છે.

આ બાબતે જણાવવાનું કે ભવિષ્યમાં ડેમમાં પાણી ઉપલબ્ધ હશે તો તેના આધારે સરકારશ્રીના નિયમોનુસાર તથા સક્ષમ કક્ષાની મંજૂરી મળે તો પાણી આપી શકાશે.

સદર પત્ર માત્ર AMNS India Ltd કંપની દ્વારા તેમના હયાત સ્ટીલ પ્લાન્ટનું વિસ્તુતીકરણ કરી પ્લાન્ટની ક્ષમતા ૧૮ MTPA કરવા Environment Clearance મેળવવા માટે આપવામાં આવે છે તથા ભવિષ્યમાં પાણી બાબતે કોઇપણ જાતની પુર્વ બાહેધરી આપવામાં આવતી નથી તથા આ પત્રના આધારે કોઇપણ પ્રકારનો હકદાવો કે કોર્ટકેસ કરી શકાશે નહીં.

(અધિકારી સ્ટેલ)

કાર્યપાલક ઇજનેર,

કા.જ.કા.નહેર વિભાગ,

સુરત.

❖ નકલ રવાના પ્રતિ, નાયબ કાર્યપાલક ઇજનેરશ્રી, રાંદેર સિંચાઇ પેટાવિભાગ, રાંદેર તરફ

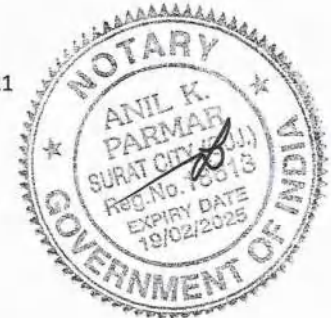
જાગ માત્ર

Register Serial No. 1311
Date:- 18/10/2021
My Commission Expires on 19th Feb. 2025

O. No. KJKNV/PB-4/Rander/AMNS India Ltd./ Plant Expansion/Future Water Requirement/7.35
MTPA to 18 MTPA / NOC/Enviournment/18/2021/1444



Date : 27/07/2021



To,
The AMNS India Ltd.
Hazira
Surat

Subject : Intimation of Future Water Requirement for Steel Plant Expansion

Reference : (01) Your letter number AMNSI/KRBC/21-22/001 dated 29/04/2021

With reference to abovementioned subject it is to inform that an agreement was occurred between your company and the government for supply of 45 MGD water for non agriculture purposes during the period from 2021 – 2024. You have informed through the above referred letter that AMNS India Company Limited wants to expand the capacity of its existing plant upto 18 MTPA. For this expansion company need 87 MGD of water by the year 2030.

In this connection it is to inform that in future if the water is available in the dam then the same will be provided as per the rules of the Government and as per the permission from competent authority.

This letter is provided only for the purpose of environmental clearance to AMNS India Limited, for expansion of its existing plant upto a capacity of 18 MTPA and there is no prior guarantee for water in future and no claim or court case will be entertained on the basis of this letter.

H D Patel
Executive engineer
Ka. J. Ka. Canal Division
Surat

IDENTIFIED BY

CG to Deputy Executive Engineer, Rander Irrigation Sub division, At Rander, for information



IT IS TRUE TRANSLATION FROM
Rajstani LANGUAGE IN TO
English LANGUAGE.

TRANSLATED BY
H. D. Patel

The Contents of the letter
have been translated by Mr. H.D. Patel
who appeared and admitted before me that this
document is the true and correct translation from
the original I have attached on 18th
day of 2021 year

Place : SURAT.
Serial No. 1311 of 2021

ANIL K. PARMAR
NOTARY
GOVT. OF INDIA

Annexure 7: TSDF Membership



Maurya Enviro Project Pvt. Ltd.

Office & Corr. : Plot No. C-1/272-1, Phase-II, GIDC, Vatva, Ahmedabad-382445. Gujarat, India.
M. : 9099046678
E-mail : mauryaenviroproject@gmail.com • CIN No. U24100GJ2016PTC085803

Certificate

Certificate No. : _____

MEPPL-508

TO WHOMSOEVER IT MAY CONCERN

THIS IS TO CERTIFY THAT

ARCELOR MITTAL NIPPON STEEL INDIA LTD

PLOT NO. 203-230,245-264,312-321,
@ 27 KM,
SURAT-HAZIRA ROAD,
SURAT GUJARAT-394270

MAURYA ENVIRO PROJECT PVT. LTD.

FOR INTEGRATED COMMON HAZARDOUS WASTE MANAGEMENT FACILITY.

THIS MEMBERSHIP IS VALID FOR A PERIOD OF

3 YEARS

DATE OF ISSUE : 19/04/2022

DATE OF EXPIRATION : 18/04/2025

PLACE OF ISSUE : AHMEDABAD

FOR, MAURYA ENVIRO PROJECT PVT. LTD.

Nirav K Desai

DIRECTOR/AUTHORISED SIGNATORY



Site : Sarvey No. : 75/A/75/B, Jamiyat Pura, Taluka - Balasinor, District - Mahisagar



BHARUCH ENVIRO INFRASTRUCTURE LIMITED

Ref. BEIL/ANK/2018

15th February, 2018

To,
Essar Steel India Ltd.
27 Km, Surat – Hazira Road,
Hazira – 394 270,
Dist. Surat.

Sub: Renewal Membership Certificate for Common Solid Waste Disposal Facility.

Dear Sir,

We hereby certify that you have become member for **5 years upto 15/02/2023** for the common Solid/Hazardous waste disposal facility of Bharuch Enviro Infrastructure Ltd., at GIDC, Ankleshwar. You have booked solid waste quantity of **2400 MT/Years**. Your Membership No. is **Oth/309**.

Waste will be accepted after submitting valid authorization of GPCB.

Thanking you,

Yours faithfully,
For BHARUCH ENVIRO INFRASTRUCTURE LTD.


AUTHORISED SIGNATORY

CIN No.: U45300GJ1997PLC032696
Works Office : Plot No. 9701-16 GIDC Estate, Post Box No. 82, Ankleshwar 393 002, Dist. : Bharuch (Gujarat)
Phones (02648) 253135, 226228 • Fax : (02648) 222849 • E-mail : panjwanla@uniphos.com
Regd. Office : Plot No. 117-118, GIDC Estate, Ankleshwar 393 002, Dist.: Bharuch. (Gujarat)

Annexure 8: Copy of Existing EC

F. No. J-11011/381/2014-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj,
New Delhi – 110003
E-mail: r.sundar@nic.in
Tel: 011-24695304

Dated: 23rd February, 2021

To

Shri. Rajiv Bhatnagar,
Executive Director-Projects,
M/s. ArcelorMittal Nippon Steel India Limited,
Village: Hazira, Taluka: Choryasi
District: Surat, Gujarat-394270.
E-mail: dr.anil.jain@amns.in

Subject: Change of company name in the Environment Clearance titled "Replacement of existing Hot Briquetted Iron (HBI)/Direct Reduced Iron (DRI) Modules I to IV with Blast Furnace and associated facilities like Sinter Plant, Coke Oven Plant and existing Electric Arc Furnace (EAF) facility with Basic Oxygen Furnace (BOF) facility in the existing integrated steel plant of M/s. Essar Steel India Limited located in Hazira Notified industrial area, Village Hazira, Tehsil Choryasi, District Surat, Gujarat" from M/s. Essar Steel India Limited to M/s. ArcelorMittal Nippon Steel India Limited – regarding.

Ref. : (i) MoEF&CC letter No. J-11011/381/2014-IA II (I) dated 09/03/2016
(ii) Online proposal no. IA/GJ/IND/179435/2020 dated 04/12/2020

Sir,

1. Reference is invited to your online proposal no. IA/GJ/IND/179435/2020 dated 04/12/2020 requesting to transfer the Environment Clearance accorded by MoEF&CC vide letter no. J-11011/381/2014-IA II (I) dated 09/03/2016 from M/s. Essar Steel India Limited to M/s. ArcelorMittal Nippon Steel India Limited.
2. The Ministry of Environment, Forest and Climate Change (MoEF&CC) has examined the request submitted by you. It is noted that the acquisition of M/s. Essar Steel India Limited by M/s. ArcelorMittal Nippon Steel India Limited was happened through Corporate Insolvency and Resolution Process.
3. It is also noted that following documents have been submitted for change of company name in the Environmental Clearance:
 - A. Documents submitted for EC transfer:
 - i. Form No.7 for transfer of Environmental Clearance.
 - ii. Authorization letter enabling Shri. Rajiv Bhatnagar, Executive Director-Projects to correspond and execute documents with MoEF&CC.

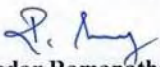
Change of company name in the Environment Clearance titled "Replacement of existing Hot Briquetted Iron (HBI) Direct Reduced Iron (DRI) Modules I to IV with Blast Furnace and associated facilities like Sinter Plant, Coke Oven Plant and existing Electric Arc Furnace (EAF) facility with Basic Oxygen Furnace (BOF) facility in the existing integrated steel plant of M/s. Essar Steel India Limited located in Hazira Notified industrial area, Village Hazira, Tehsil Choryasi, District Surat, Gujarat" from M/s. Essar Steel India Limited to M/s. ArcelorMittal Nippon Steel India Limited.

Page 1 of 3

o/c

- iii. NOC from M/s. Essar Steel India Limited stating that they have no issues or objection on change of their unit's name from M/s. Essar Steel India Limited to M/s. ArcelorMittal Nippon Steel India Limited.
 - iv. Undertaking by way of Affidavit dated 15/09/2020 and registered on 23/09/2020 of M/s. ArcelorMittal Nippon Steel India Limited in a non-judicial stamp stating that they will abide by and comply with all the conditions/environmental safeguards stipulated in the Environment Clearance dated 09/03/2016.
 - v. Hon'ble Supreme Court Order dated 15th November, 2019 regarding CIRP.
 - vi. Memorandum and Articles of Association of M/s. ArcelorMittal Nippon Steel India Limited.
 - vii. Certificate of incorporation pursuant to change of name issued by the Ministry of Corporate Affairs to M/s. ArcelorMittal Nippon Steel India Limited on 08/01/2020.
4. As per the para 11 of EIA notification 2006, a prior environmental clearance granted for a specific project or activity to an applicant may be **transferred during its validity** to another legal person entitled to undertake the project or activity on application by the transferor, or by the transferee with a written "no objection" by the transferor to and by the regulatory authority concerned, on the same terms and conditions under which the prior environmental clearance was initially granted, and for the same validity period. No reference to the Expert Appraisal Committee or State Level Expert Appraisal Committee concerned is necessary in such cases.
5. This Ministry hereby accepted the request for transfer of Environment Clearance accorded vide letter no J-11011/381/2014-IA II (I) dated 09/03/2016 from M/s. Essar Steel India Limited to M/s. ArcelorMittal Nippon Steel India Limited subject to satisfactory compliance to all the stipulated specific and general conditions. You are also requested to obtain 'Consent to Establish' and 'Consent to Operate' from the Gujarat Pollution Control Board in the name of M/s. ArcelorMittal Nippon Steel India Limited.
6. M/s. ArcelorMittal Nippon Steel India Limited shall comply with the all specific and general conditions stipulated in the Environment Clearance letter dated 09/03/2016.
7. In case, there is a change in the scope of the project, fresh Environment Clearance shall be obtained.
8. This issues with the approval of the Competent Authority.

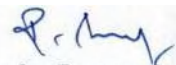
Yours faithfully,


(Sundar Ramanathan)
Scientist 'E'

Change of company name in the Environment Clearance titled "Replacement of existing Hot Briquetted Iron (HBI) Direct Reduced Iron (DRI) Modules 1 to 11V with Blast Furnace and associated facilities like Sinter Plant, Coke Oven Plant and existing Electric Arc Furnace (EAF) facility with Basic Oxygen Furnace (BOF) facility in the existing integrated steel plant of M/s. Essar Steel India Limited located in Hazira Notified industrial area, Village Hazira, Tehsil Choryasi, District Surat, Gujarat" from M/s. Essar Steel India Limited to M/s. ArcelorMittal Nippon Steel India Limited.

Copy to:-

1. Secretary, Department of Environment, Government of Gujarat, Secretariat Gandhinagar.
2. Regional Officer, Ministry of Environment, Forest and Climate Change, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal-462016
3. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. Chairman, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar-382010.
5. Member Secretary, Central Ground Water Authority, West Block -II, Wing -3, Sector 1, R.K.Puram, New Delhi - 110086.
6. District Collector, Surat District, State of Gujarat.
7. Guard File / Record file / Monitoring file.
8. MOEF&CC Website.


(Sundar Ramanathan)
Scientist 'E'

Change of company name in the Environment Clearance titled "Replacement of existing Hot Briquetted Iron (HBI) Direct Reduced Iron (DRI) Modules 1 to 1IV with Blast Furnace and associated facilities like Sinter Plant, Coke Oven Plant and existing Electric Arc Furnace (EAF) facility with Basic Oxygen Furnace (BOF) facility in the existing integrated steel plant of M/s. Essar Steel India Limited located in Hazira Notified industrial area, Village Hazira, Tehsil Choryasi, District Surat, Gujarat" from M/s. Essar Steel India Limited to M/s. ArcelorMittal Nippon Steel India Limited.

Page 3 of 3

F. No. J-11011/381/2014-IA II (I)

Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj,
New Delhi - 110003
E-mail: satish.garkoti@nic.in
Tel: 011- 24695316

Dated: 8th March, 2016

To

✓
M/s. Essar Steel India Limited
Hazira industrial area, Village Hazira,
Tehsil Choryasi, District Surat,
Gujarat-394270

Subject: Replacement of existing Hot Briquetted Iron (HBI)/Direct Reduced Iron (DRI) Modules I to IV with Blast Furnace and associated facilities like Sinter Plant, Coke Oven Plant and existing Electric Arc Furnace (EAF) facility with Basic Oxygen Furnace (BOF) facility in the existing integrated steel plant of M/s. Essar Steel India Limited located in Hazira Notified industrial area, Village Hazira, Tehsil Choryasi, District Surat, Gujarat - Environment Clearance regarding.

Sir,

This has reference to your online application no. IA/GJ/IND/28742/2014 dated 25th June, 2015 along with copies of EIA/EMP report seeking Environment Clearance under the provisions of the EIA Notification, 2006 for the project mentioned above and subsequent letter No. ESTIL/ENV/JP/EC/11-15 dated 9th November, 2015. The ToRs to the project was awarded by Ministry of Environment, Forest and Climate Change vide letter No. J-11011/381/2014-IA.II (I) dated 12th February, 2015 for preparation of EIA/EMP report.

2.0 Based on the TORs prescribed to the project; the project proponent submitted an application for environmental clearance to the Ministry online on 02.08.2015. The project was appraised by the Expert Appraisal Committee (Industry) during its meeting held on 03.09.2015 and desired to revise the EIA & EMP report. The revised EIA & EMP report was received by the Ministry on 09.11.2015.

3.0 The proposal is for replacement of existing Hot Briquetted Iron (HBI)/Direct Reduced Iron (DRI) Modules I to IV with Blast Furnace and associated facilities like Sinter Plant, Coke Oven Plant and existing Electric Arc Furnace (EAF) facility with Basic Oxygen Furnace (BOF) facility. Details of existing and proposed configuration, production facilities and products are as follows.

Rec'd on
22/03/16
2

No.	Name of Production Unit/Products	Unit	Capacity			Status of Existing Units
			Existing	Proposed	Total	
1.	HBI Plant (DRI Mod. I to VI)	MTP A	7.83	-4.0	3.83	Only Mod V & VI are in operation.
2.	Blast Furnace	MTP A	2.04	3	5.04	In operation
3.	Sinter Plant	MTP A	1.48	7	8.48	In operation
4.	Coke Oven (Recovery Type)					
	Gross Coke	MTPA	1.2	1.35	2.55	Under construction.
	Crude tar (by-product)	TPA	52,200	63,000	1,15,200	
	Sulphur (by-product)	TPA	1,700	1,980	3,680	
	Crude Benzol (by-product)	TPA	0	18,243	18,243	
	Naphthalene	TPA	130	0	130	
5.	Air Separation					
	Oxygen Gaseous	Nm ³ /hr	3,60,544	64,200	4,24,744	In operation
	Oxygen liquid		2,950	500	3,450	
	Nitrogen		1,19,944	25,700	1,45,644	
	Argon		3,470	1,500	4,970	
6.	Steel Melt Shop-1 (EAF) (4 Nos)	MTP A	4.6	-4.6	0	In operation (Partial)
7.	Basic Oxygen Furnace (BoF) (3 Nos)	MTP A	0	4.6	4.6	Proposed
8.	Steel Melt Shop-2 (4 EAF & 4 LF)	MTP A	5.0	0	5.0	In operation
9.	Corex Plant (2 Nos)	MTP A	1.7	0	1.7	In operation
10.	Lime Plant (Lime /Dolime)	MTP A	0.93	0	0.93	In operation
11.	CPP	MW	31	0	31	In operation (Partial)
		MW	48	0	48	Not yet established
		MW	525	0	525	Not in operation
12.	Plate Mill	MTP A	1.5	0	1.5	In operation
13.	Pellet plant	MTP A	4.0	0	4.0	Not yet established

No.	Name of Production Unit/Products	Unit	Capacity			Status of Existing Units
			Existing	Proposed	Total	
14.	CSP, Hot Rolling Mill & Long Product - HRC	MTPA	3.5	0	3.5	In operation
	Rebar		1.6	0	1.6	Not yet established
	Wire Rod		0.7	0	0.7	
15.	Caster Shop	MTPA				
	Slabs from slab caster		4.9	0	4.9	In operation
	Billets from Billet caster		2.37	0	2.37	Not yet established
16.	CRM	MTPA				
	Hot Rolled Pickled Coils/Sheets		1.5	0	1.5	In operation
	CR Coils/Sheets		1.3	0	1.3	
	Galvanized Coils/Sheets		0.65	0	0.65	
	Coated Sheets/Coils		0.1	0	0.1	
17.	Extension of Existing Jetty	Meters	734	0	734	In operation
18.	Waste Heat Recovery Based Power Plant	MW	25	20	45	In operation
19.	Pipe Mill					
	H Saw Pipes	MTPA	0.15	0	0.15	In operation
	L Saw Pipes	MTPA	0.33	0	0.33	

4.0 The total land required for the project is 50.163 ha. The proposed replacement will be carried out in the existing units after dismantling and at other vacant areas. No additional land will be acquired. No forest land involved. The topography of the area is flat and reported to lie between 21° 6'15.07" to 21° 7'26.78" N Latitude and 72° 38'28.24" to 72° 39'1.29" E Longitude in Survey of India topo sheet No. F43M12, at an elevation of 9 m AMSL. The Tapi River passes adjacent to the project area. It has been reported that no modification/diversion in the existing natural drainage pattern at any stage has not been proposed. It has been reported that Dumas Reserved Forest is located towards south-east direction of the project.

5.0 The targeted production capacity of the plant will not be increased and remained 9.6 million TPA. The ore in the form of DR and BF Grade Pellets for the plant would be procured from Essar's Pelletization plant located at Visakhapatnam & Paradeep, Calibrated Lump Ore would be procured from NMDC mines in Kirandul, District Dantewada, Chhattisgarh and Oxide Fines would be procured from Goa, Orissa and NMDC mines in Kirandul. The ore transportation will be done through sea route. The details of raw material is as under:

No.	Name of Raw Material	Requirement (MTPA)			Source	Mode of Transportation
		Existing	Proposed	Total		
1	DR Grade Pellets	83,91,000	-44,03,000	39,88,000	Essar's Pelletization Plant located at Visakhapatnam & Paradeep	Sea Route
2	BF Grade Pellets	45,00,000	1,72,000	46,72,000		
3	Calibrated Lump Ore	21,65,000	-11,47,000	10,18,000	NMDC mines in Kirandul, Dist Dantewada, CG.	Sea Route
4	Oxide Fines	6,12,000	52,18,000	58,30,000	Goa, Orissa, NMDC mines in Kirandul	Sea Route
	Total Iron Bearing material	1,56,68,000	-1,60,000	1,55,08,000	-	-

6.0 The ground water table reported to ranges between 0.80 m to 9 m below the land surface during the post-monsoon season and 2 m to 6 m below the land surface during the pre-monsoon season. Water for the project is/will be sourced from Tapi River at Variav, 31 km upstream from Hazira.

7.0 The water requirement of the project is estimated as 1,375 m³/hr, while total water requirement for the facilities/unit to be dismantled (HBI / DRI Modules I to IV and EAF 4 nos.) is around 1,400 m³/hr. Total water requirement of complex will be 8,499 m³/hr. Entire water is being sourced from existing water source i.e. Tapi River at Variav, 31 km upstream from Hazira. The power requirement of the project is estimated as 101MW. Total power for the facilities/unit to be dismantled (HBI/DRI Modules I to IV and EAFs 4 nos.) is around 330 MW. Total power requirement of complex will be 623 MW. Power is being sourced from 400 KV transmission tower line.

8.0 Solid waste to the tune of 85,21,352 MTPA will be generated due to the project, out of which 38,50,852 MTPA will be used as raw material within steel complex, 15,52,000 MTPA will be used for land filling and road construction, 23,52,000 will be sent to cement plant and 7,66,500 MTPA will be sold to authorized party. It has been informed that 49,247 MTPA of hazardous waste will be generated due to the project, out of which 17,600 MTPA will be used in sinter plant as iron bearing material by the way of micro pellets or disposal at GPCB approved TSDF site, 3,079 MTPA will be sold to registered re-refiners, 15,090 nos./MTPA will be sent to authorised recyclers/reprocessors, 11,138 MTPA will be disposed at GPCB approved CHWIF and 2,340 MTPA will be Sold to authorized recyclers. It has been reported that an area of 159 ha is already developed as green belt and envisaged

additional 93 ha to be developed as green belt around the project site to attenuate the noise levels and trap the dust generated due to the project development activities.

10.0 The Public hearing is exempted for the proposed project as it is located within the notified Hazira industrial area.

9.0 The capital cost of the project is Rs. 8,097 Crores and the capital cost for environmental protection measures is proposed as Rs. 1,543 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 185.85 Crores. The proponent has mentioned that there is no court case to the project or related activity.

10.0 The matter was considered by the Expert Appraisal Committee (Industry-I) in its 2nd meeting held on 28th -30th December, 2015. After detailed deliberations, the EAC (I) recommended the project for Environmental Clearance and stipulated Specific Conditions along with other environmental conditions while considering for accord of Environmental Clearance.

11.0 The Ministry of Environment, Forest and Climate Change has considered the application based on the recommendations of the Expert Appraisal Committee (Industry-I) and hereby decided to grant Environmental Clearance to the above mentioned proposal of Replacement of existing Hot Briquetted Iron (HBI)/Direct Reduced Iron (DRI) Modules I to IV with Blast Furnace and associated facilities like Sinter Plant, Coke Oven Plant and existing Electric Arc Furnace (EAF) facility with Basic Oxygen Furnace (BOF) facility in the existing integrated steel plant of M/s. Essar Steel India Limited under the provision of EIA Notification dated 14th September, 2006, as amended, subject to strict compliance of the following Specific and General conditions:

A. SPECIFIC CONDITION:

- i. The project proponent shall install 24x7 air monitoring devices to monitor air emissions, as provided by the CPCB and submit report to Ministry and its Regional Office.
- ii. Continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), bag house, bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm³ and installing energy efficient technology.
- iii. Efforts shall further be made to use maximum water from the rain water harvesting sources. Use of air cooled condensers shall be explored and closed circuit cooling system shall be provided to reduce water consumption and water requirement shall be modified accordingly. All the effluent should be treated and used for ash handling, dust suppression and green belt development.
- iv. All the coal fines and char shall be utilized within the plant and no char shall be used for briquette making or disposed off anywhere else. Scrap shall be used in steel melting shop (SMS) and SMS slag and kiln accretions shall be properly utilized. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner.

- v. All internal roads shall be black topped. The roads shall be regularly cleaned with mechanical sweepers. A 3-tier avenue plantation using native species shall be developed along the roads. Facilities for parking of trucks carrying raw coal from the linked coalmines shall be created within the Unit.
- vi. The Standards issued by the Ministry vide G.S.R. No. 277(E) dated 31st March, 2012 regarding integrated iron and steel plant shall be followed.
- vii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
- viii. Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.
- ix. Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.
- x. 'Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.
- xi. Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the E(P) Act whichever are more stringent.
- xii. Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office, SPCB and CPCB.
- xiii. A time bound action plan shall be submitted to reduce solid waste generated due to the project related activities, its proper utilization and disposal.
- xiv. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2009. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding shall be submitted to the Ministry's Regional Office at Chennai.
- xv. A Risk and Disaster Management Plan shall be prepared and a copy submitted to the Ministry's Regional Office, SPCB and CPCB within 3 months of issue of environment clearance letter.
- xvi. Green belt shall be developed in at least 33% of the project area by planting native and broad leaved species in consultation with local DFO and local communities as per the CPCB guidelines.

- xvii. At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured by constituting a Committee comprising of the proponent, representatives of village Panchayat and District Administration. Action taken report in this regard shall be submitted to the Ministry's Regional Office.
- xviii. The proponent shall prepare a detailed CSR Plan for every year for the next 5 years for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the Plan shall be submitted as part of the Compliance Report to RO. The details of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.
- xix. The Company shall submit within three months their policy towards Corporate Environment Responsibility which shall inter-alia address (i) Standard operating process/procedure to being into focus any infringement/deviation/ violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non-compliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.
- xx. The project proponent shall provide for solar light system for all common areas, street lights, villages, parking around project area and maintain the same regularly.
- xxi. The project proponent shall provide for LED lights in their offices and residential areas.
- xxii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board and the State Government.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).

- iii. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM₁₀, PM_{2.5}, SO₂ and NO_x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhopal and the SPCB/CPCB once in six months.
- iv. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.
- v. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- viii. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
- ix. Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEFCC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhopal. The funds so provided shall not be diverted for any other purpose.
- x. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.
- xi. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEFCC at Bhopal. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects

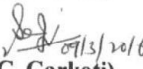
shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

- xii. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhopal / CPCB / SPCB shall monitor the stipulated conditions.
- xiii. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEFCC at Bhopal by e-mail.
- xiv. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEFCC) at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Bhopal.
- xv. Project authorities 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 and the date of commencing the land development work.

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

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

14.0 The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.


(Dr. Satish C. Garkoti)
Scientist 'F'

Copy to:-

1. The Secretary, Department of Environment, Government Gujarat.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.

3. The Chairman, Gujarat State Pollution Control Board, 4, Paryavaran Bhavan, Opp. Bij Nigam, CHH Road, Sector 10A, Sector 10, Gandhinagar, Gujarat 382010.
4. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal – 462016.
5. Guard File / Record File/Monitoring file.

(Dr. Satish C. Garkoti)
Scientist 'F'

Annexure 9: Long Term Meteorological Data

जलवायवी सारणी
CLIMATOLOGICAL TABLE



स्टेशन : सूरत STATION : Surat		अक्षांश LAT. 21° 12'		देशांतर LONG. 72° 50'		समुद्री तल माध्य से ऊंचाई HEIGHT ABOVE M.S.L. 12		मीटर METRES		प्रक्षणों पर आधारित BASED ON OBSERVATIONS 1981-2010										
माह	स्टेशन का सतह दाब	वायु तापमान						आर्द्रता		मेघ की मात्रा		मासिक योग	वर्षा के दिनोंकी संख्या	वर्षसहित सबसे नम महीने का योग	वर्षसहित शुष्कतम महीने का योग	24 घंटोकी सबसे भारी वर्षा	दिनांक और वर्ष	माध्य पवन गति		
		माध्य		चरम				सापेक्ष आर्द्रता	वाष्प दाब	समस्त मेघ	निम्न मेघ									
MONTH	STATION LEVEL PRESSURE	AIR TEMPERATURE						HUMIDITY		CLOUD AMOUNTS		RAINFALL								
		MEAN		EXTREMES				RELATIVE HUMIDITY	VAPOUR PRESSURE	ALL CLOUDS	LOW CLOUDS	MONTHLY TOTAL	NO. OF RAINY DAYS	TOTAL IN WETTEST MONTH WITH YEAR	TOTAL IN DRIEST MONTH WITH YEAR	HEAVIEST FALL IN 24 HOURS	DATE AND YEAR	MEAN WIND SPEED		
	एच.पी.ए. hPa	डि. से °C	डि. से °C	डि. से °C	डि. से °C	डि. से °C	डि. से °C	डि. से °C	प्रतिशत %	एच.पी.ए. hPa	आकाश के अष्टमाश Oktas of sky	मि.मि. mm		मि.मि. mm	मि.मि. mm	मि.मि. mm		कि.मी. प्र. घं. Kmph		
जनवरी JAN	I II	1014.1 1010.9	17.5 27.5	14.3 18.9	30.8 15.2	15.2 34.8	11.4 38.3	20 4.4	31 1952	68 41	13.9 15	0.8 0.9	0.2	1.5	0.1	91.7 1920	0	43.7 1920	6 1920	3.7
फरवरी FEB	I II	1013 1009.8	19.5 29.5	15.6 19.1	32.3 16.7	16.7 36.9	12.6 41.7	28 5.6	1 1929	64 34	14.8 13.8	0.8 0.8	0.2	0.3	0.1	65 2003	0	65 2003	19 2003	3.5
मार्च MAR	I II	1011 1007.2	24.1 32.9	19.5 21.3	35.4 20.7	20.7 40.2	16.5 44	26 8.9	9 1979	64 33	19.2 15.9	0.8 0.7	0.1	0.4	0	34.9 1967	0	13 1967	26 1967	3.6
अप्रैल APR	I II	1008.7 1005	28 34	23.4 23.8	36.7 24	24 41.4	21.1 45.6	15 15	3 1903	66 42	25.1 21.3	1.2 0.8	0.5 0.1	0.2	0	149.4 1947	0	97.8 1947	19 1947	4.7
मई MAY	I II	1006.4 1002.9	30.1 33	26 26.4	35.8 26.8	26.8 41.2	24 45.6	1 19.4	4 1888	70 58	30.2 28.9	2.6 1	2.1 0.7	3.9	0.3	128.1 1917	0	51.6 1974	26 1974	8
जून JUN	I II	1002.5 999.8	29.6 31.6	26.6 27.1	34 27	27 38.1	23.6 45.6	10 20.2	19 1962	78 70	32.4 32.2	4.6 3.5	3.2 2	245.2	7	836.7 1976	0	260.1 1922	27 1922	8.3
जुलाई JUL	I II	1001.7 999.8	27.9 29.4	26.1 26.6	31.2 25.9	25.9 33.9	23.8 38.9	7 19.9	11 1979	86 80	32.4 32.6	6 5.6	3.8 3.5	466.3	14.6	1614 1988	0	459.2 1941	2 1941	8.1
अगस्त AUG	I II	1003.5 1001.4	27.3 28.8	25.6 26	30.8 25.5	25.5 33.2	23.6 37.2	31 20.2	3 1989	86 79	31.5 31.5	6.3 5.9	3.9 3.4	283.8	12.7	888.1 1953	0	324.6 1964	13 1964	6.6
सितम्बर SEP	I II	1006.8 1003.9	27.5 30.2	25.4 25.9	32.3 25.4	25.4 35.8	23.4 41.1	26 20.6	9 1884	83 70	30.7 29.9	4.5 3.8	2.6 2	151.8	6.7	1066.3 1954	0	403.1 1945	23 1945	3.7
अक्टूबर OCT	I II	1010 1006.7	26.6 32.1	23.2 24.5	35.1 23.3	23.3 38.2	19.8 41.4	16 14.4	20 1893	73 52	25.8 24.7	2 2	0.9 0.9	41.8	1.7	429 1894	0	257.1 1894	25 1894	2.3
नवम्बर NOV	I II	1012.7 1009.5	23.2 30.4	18.9 21.7	34.1 19.6	19.6 36.5	15.6 39.4	9 10.6	19 1881	65 44	18.6 19.1	1.3 1.5	0.5 0.6	7.1	0.5	190.3 1946	0	148.3 1946	6 1946	2.7
दिसम्बर DEC	I II	1014.3 1011.1	19.2 28	15.6 19.7	31.9 16.5	16.5 34.8	12.6 38.9	2 6.7	27 1903	67 43	15.1 16.4	1.1 1.2	0.3 0.3	0.6	0	42.5 1933	0	42.2 1933	20 1933	2.9
वार्षिक योग या माध्य ANNUAL TOTAL OR MEAN	I II	1008.8 1005.7	25 30.6	21.6 23.4	33.4 22.2	22.2 42.3	10.9 45.6	15 4.4	31 1929	73 53	24.1 23.4	2.6 2.2	1.5 1.1	1202.8	43.8	2298.7 1976	363 1904	459.2 7	2 1941	4.8
वर्षोंकी सं NUMBER OF YEARS	I II	27	27	27	30	30	30	30	109	109	27	27	24	24	28	28	122	122	132	13

Annexure 10: Date wise AAQM Data for Summer Season & Post Monsoon Season

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration (µg/m ³)						Average Pollutant Conc. (mg/m ³)	Average Pollutant Conc. (ng/m ³)
					PM 10	PM2.5	SO 2	NO x	NH 3	HC	CO	As
					24 hr	24 hr	24 hr	24 hr	24 hr		1 hr	24 hr
CPC B Norms	Industrial, Residential, Rural and Other Area				100	60	80	80	400	NS	4	6
	Ecologically Sensitive Area (Notified by Central Govt.)				100	60	80	30	400	NS	4	6
1	AA01	11.3.21	Nand nicketan	Industrial	113	42	8.4	10.6	BDL	974	1.01	BDL
2	AA01	12.3.21	Nand nicketan	Industrial	60	48	9.6	12.4	BDL	--	--	BDL
3	AA01	19.3.21	Nand nicketan	Industrial	114	24	7.7	10.7	BDL	--	--	BDL
4	AA01	20.3.21	Nand nicketan	Industrial	51	10	8.5	13.0	BDL	--	--	BDL
5	AA01	27.3.21	Nand nicketan	Industrial	99	11	9.0	11.0	BDL	--	--	BDL
6	AA01	28.3.21	Nand nicketan	Industrial	68	12	8.4	11.0	BDL	1048	0.89	BDL
7	AA01	6.4.21	Nand nicketan	Industrial	61	11	7.4	14.1	BDL	--	--	BDL
8	AA01	7.4.21	Nand nicketan	Industrial	112	52	9.4	11.9	BDL	--	--	BDL
9	AA01	14.4.21	Nand nicketan	Industrial	45	22	8.0	12.1	BDL	--	--	BDL
10	AA01	15.4.21	Nand nicketan	Industrial	47	41	8.7	13.3	BDL	1084	1.13	BDL
11	AA01	22.4.21	Nand nicketan	Industrial	48	36	9.5	11.4	BDL	--	--	BDL
12	AA01	23.4.21	Nand nicketan	Industrial	113	21	7.2	10.7	BDL	--	--	BDL
13	AA01	30.4.21	Nand nicketan	Industrial	93	17	8.4	11.2	BDL	992	1.01	BDL
14	AA01	31.4.21	Nand nicketan	Industrial	84	12	9.2	12.8	BDL	--	--	BDL
15	AA01	14.5.21	Nand nicketan	Industrial	74	22	8.8	13.6	BDL	--	--	BDL
16	AA01	27.5.21	Nand nicketan	Industrial	107	12	7.9	10.9	BDL	--	--	BDL
17	AA01	28.5.21	Nand nicketan	Industrial	107	11	7.8	10.4	BDL	1043	1.13	BDL

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration (µg/m ³)						Average Pollutant Conc. (mg/m ³)	Average Pollutant Conc. (ng/m ³)
					PM 10	PM _{2.5}	SO ₂	NO _x	NH ₃	HC	CO	As
					24 hr	24 hr	24 hr	24 hr	24 hr		1 hr	24 hr
CPC B Norms	Industrial, Residential, Rural and Other Area				100	60	80	80	400	NS	4	6
	Ecologically Sensitive Area (Notified by Central Govt.)				100	60	80	30	400	NS	4	6
18	AA01	29.5.21	Nandniketan	Industrial	117	17	9.7	12.1	BDL	--	--	BDL
19	AA01	30.5.21	Nandniketan	Industrial	121	18	8.4	11.5	BDL	--	--	BDL
20	AA01	31.5.21	Nandniketan	Industrial	130	12	9.0	13.2	BDL	--	--	BDL
21	AA01	5.6.21	Nandniketan	Industrial	130	12	9.0	13.2	BDL	--	--	BDL
1	AA02	11.3.21	T.P.A	Industrial	128	48	9.2	12.1	BDL	1002	0.96	BDL
2	AA02	12.3.21	T.P.A	Industrial	112	38	7.4	11.4	BDL	--	--	BDL
3	AA02	19.3.21	T.P.A	Industrial	98	13	8.6	13.7	BDL	--	--	BDL
4	AA02	20.3.21	T.P.A	Industrial	121	9	8.8	13.3	BDL	1193	1.09	BDL
5	AA02	27.3.21	T.P.A	Industrial	37	11	7.9	10.6	BDL	--	--	BDL
6	AA02	28.3.21	T.P.A	Industrial	53	10	9.2	11.7	BDL	--	--	BDL
7	AA02	6.4.21	T.P.A	Industrial	100	14	8.0	11.4	BDL	--	--	BDL
8	AA02	7.4.21	T.P.A	Industrial	135	13	9.2	11.1	BDL	--	--	BDL
9	AA02	14.4.21	T.P.A	Industrial	127	29	8.3	12.4	BDL	1098	1.03	BDL
10	AA02	15.4.21	T.P.A	Industrial	40	22	7.8	10.5	BDL	--	--	BDL
11	AA02	22.4.21	T.P.A	Industrial	110	9	9.3	13.9	BDL	--	--	BDL
12	AA02	23.4.21	T.P.A	Industrial	97	36	9.0	12.2	BDL	--	--	BDL
13	AA02	30.4.21	T.P.A	Industrial	42	10	7.7	13.2	BDL	1121	0.96	BDL

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration (µg/m ³)						Average Pollutant Conc. (mg/m ³)	Average Pollutant Conc. (ng/m ³)
					PM 10	PM2.5	SO 2	NO x	NH 3	HC	CO	As
					24 hr	24 hr	24 hr	24 hr	24 hr		1 hr	24 hr
CPC B Norms	Industrial, Residential, Rural and Other Area				100	60	80	80	400	NS	4	6
	Ecologically Sensitive Area (Notified by Central Govt.)				100	60	80	30	400	NS	4	6
14	AA02	31.4.21	T.P.A	Industrial	133	14	8.2	10.6	BDL	--	--	BDL
15	AA02	14.5.21	T.P.A	Industrial	91	16	9.8	12.0	BDL	--	--	BDL
16	AA02	27.5.21	T.P.A	Industrial	114	12	8.4	11.5	BDL	--	--	BDL
17	AA02	28.5.21	T.P.A	Industrial	106	16	9.0	13.7	BDL	1059	1.27	BDL
18	AA02	29.5.21	T.P.A	Industrial	35	16	7.3	11.9	BDL	--	--	BDL
19	AA02	30.5.21	T.P.A	Industrial	30	12	8.4	12.5	BDL	--	--	BDL
20	AA02	31.5.21	T.P.A	Industrial	107	10	8.6	13.6	BDL	--	--	BDL
21	AA02	5.6.21	T.P.A	Industrial	107	10	8.6	13.6	BDL	--	--	BDL
1	AA03	13.3.21	Dumas	Commercial	82	40	7.8	13.9	BDL	1004	1.03	BDL
2	AA03	14.3.21	Dumas	Commercial	87	55	8.0	10.2	BDL	--	--	BDL
3	AA03	21.3.21	Dumas	Commercial	37	38	8.5	13.1	BDL	--	--	BDL
4	AA03	22.3.21	Dumas	Commercial	44	25	9.1	12.0	BDL	--	--	BDL
5	AA03	29.3.21	Dumas	Commercial	82	8	9.0	10.7	BDL	--	--	BDL
6	AA03	30.3.21	Dumas	Commercial	78	17	7.3	11.8	BDL	--	--	BDL
7	AA03	5.4.21	Dumas	Commercial	101	31	8.4	13.2	BDL	--	--	BDL
8	AA03	9.4.21	Dumas	Commercial	40	32	8.3	10.8	BDL	1097	1.02	BDL
9	AA03	16.4.21	Dumas	Commercial	89	17	9.0	12.9	BDL	--	--	BDL

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration (µg/m ³)						Average Pollutant Conc. (mg/m ³)	Average Pollutant Conc. (ng/m ³)
					PM 10	PM2.5	SO 2	NO x	NH 3	HC	CO	As
					24 hr	24 hr	24 hr	24 hr	24 hr		1 hr	24 hr
CPC B Norms	Industrial, Residential, Rural and Other Area				100	60	80	80	400	NS	4	6
	Ecologically Sensitive Area (Notified by Central Govt.)				100	60	80	30	400	NS	4	6
10	AA03	17.4.21	Dumas	Commercial	94	19	8.3	11.5	BDL	--	--	BDL
11	AA03	24.4.21	Dumas	Commercial	62	22	7.4	13.3	BDL	--	--	BDL
12	AA03	25.4.21	Dumas	Commercial	52	8	9.6	12.5	BDL	--	--	BDL
13	AA03	1.5.21	Dumas	Commercial	86	23	8.2	10.9	BDL	1048	1.15	BDL
14	AA03	2.5.21	Dumas	Commercial	86	19	7.8	11.5	BDL	--	--	BDL
15	AA03	9.5.21	Dumas	Commercial	72	20	9.0	11.1	BDL	--	--	BDL
16	AA03	10.5.21	Dumas	Commercial	62	12	7.8	12.9	BDL	--	--	BDL
17	AA03	15.5.21	Dumas	Commercial	85	29	7.2	13.8	BDL	--	--	BDL
18	AA03	16.5.21	Dumas	Commercial	94	34	9.2	12.6	BDL	1133	1.13	BDL
19	AA03	01.6.21	Dumas	Commercial	65	21	9.7	16.1	BDL	--	--	BDL
20	AA03	02.6.21	Dumas	Commercial	87	28	4.3	10.2	BDL	--	--	BDL
21	AA03	26.5.21	Dumas	Commercial	91	32	7.5	16.3	BDL	1109	0.95	BDL
1	AA04	13.3.21	Hazira	Industrial	103	34	7.3	11.4	BDL	--	--	BDL
2	AA04	14.3.21	Hazira	Industrial	70	13	8.8	12.7	BDL	--	--	BDL
3	AA04	21.3.21	Hazira	Industrial	111	15	8.5	10.3	BDL	1015	1.27	BDL
4	AA04	22.3.21	Hazira	Industrial	117	23	9.2	11.3	BDL	--	--	BDL
5	AA04	29.3.21	Hazira	Industrial	80	8	8.5	13.3	BDL	--	--	BDL

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration (µg/m ³)						Average Pollutant Conc. (mg/m ³)	Average Pollutant Conc. (ng/m ³)
					PM 10	PM2.5	SO 2	NO x	NH 3	HC	CO	As
					24 hr	24 hr	24 hr	24 hr	24 hr		1 hr	24 hr
CPC B Norms	Industrial, Residential, Rural and Other Area				100	60	80	80	400	NS	4	6
	Ecologically Sensitive Area (Notified by Central Govt.)				100	60	80	30	400	NS	4	6
6	AA04	30.3.21	Hazira	Industrial	46	14	7.6	12.9	BDL	--	--	BDL
7	AA04	5.4.21	Hazira	Industrial	93	16	8.2	12.6	BDL	998	1.17	BDL
8	AA04	9.4.21	Hazira	Industrial	34	20	7.1	10.8	BDL	--	--	BDL
9	AA04	16.4.21	Hazira	Industrial	32	33	9.4	13.9	BDL	--	--	BDL
10	AA04	17.4.21	Hazira	Industrial	103	15	9.1	11.1	BDL	--	--	BDL
11	AA04	24.4.21	Hazira	Industrial	71	35	8.0	12.2	BDL	--	--	BDL
12	AA04	25.4.21	Hazira	Industrial	50	8	8.5	13.4	BDL	--	--	BDL
13	AA04	1.5.21	Hazira	Industrial	112	13	8.0	11.5	BDL	950	1.16	BDL
14	AA04	2.5.21	Hazira	Industrial	88	7	7.4	11.5	BDL	--	--	BDL
15	AA04	9.5.21	Hazira	Industrial	109	6	9.0	10.2	BDL	--	--	BDL
16	AA04	10.5.21	Hazira	Industrial	88	21	9.1	13.5	BDL	--	--	BDL
17	AA04	15.5.21	Hazira	Industrial	105	55	10.5	15.2	BDL	--	--	BDL
18	AA04	16.5.21	Hazira	Industrial	99	33	6.7	15.0	BDL	1092	1.06	BDL
19	AA04	01.6.21	Hazira	Industrial	87	26	6.0	12.9	BDL	--	--	BDL
20	AA04	02.6.21	Hazira	Industrial	95	29	7.3	9.9	BDL	--	--	BDL
21	AA04	26.5.21	Hazira	Industrial	67	20	14.0	14.2	BDL	1070	0.89	BDL
1	AA05	7.3.21	Junagam	Industrial	126	51	7.9	11.9	BDL	--	--	BDL

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration (µg/m ³)						Average Pollutant Conc. (mg/m ³)	Average Pollutant Conc. (ng/m ³)
					PM 10	PM2.5	SO 2	NO x	NH 3	HC	CO	As
					24 hr	24 hr	24 hr	24 hr	24 hr		1 hr	24 hr
CPC B Norms	Industrial, Residential, Rural and Other Area				100	60	80	80	400	NS	4	6
	Ecologically Sensitive Area (Notified by Central Govt.)				100	60	80	30	400	NS	4	6
2	AA05	8.3.21	Junagam	Industrial	81	41	8.4	10.1	BDL	--	--	BDL
3	AA05	15.3.21	Junagam	Industrial	49	53	9.1	12.4	BDL	--	--	BDL
4	AA05	16.3.21	Junagam	Industrial	138	48	7.4	11.2	BDL	1036	0.89	BDL
5	AA05	23.3.21	Junagam	Industrial	51	27	8.3	13.7	BDL	--	--	BDL
6	AA05	24.3.21	Junagam	Industrial	93	22	7.7	10.4	BDL	--	--	BDL
7	AA05	1.4.21	Junagam	Industrial	79	19	9.8	13.1	BDL	--	--	BDL
8	AA05	2.4.21	Junagam	Industrial	132	28	9.1	11.7	BDL	1089	1.27	BDL
9	AA05	10.4.21	Junagam	Industrial	129	35	8.8	10.1	BDL	--	--	BDL
10	AA05	11.4.21	Junagam	Industrial	33	8	7.4	13.3	BDL	--	--	BDL
11	AA05	18.4.21	Junagam	Industrial	99	20	9.2	11.4	BDL	--	--	BDL
12	AA05	19.4.21	Junagam	Industrial	114	20	8.3	12.1	BDL	1146	1.06	BDL
13	AA05	26.4.21	Junagam	Industrial	82	20	9.8	13.6	BDL	--	--	BDL
14	AA05	27.4.21	Junagam	Industrial	112	25	7.3	10.5	BDL	--	--	BDL
15	AA05	3.5.21	Junagam	Industrial	39	21	7.6	12.0	BDL	--	--	BDL
16	AA05	4.5.21	Junagam	Industrial	37	10	9.4	13.2	BDL	1132	1.27	BDL
17	AA05	11.5.21	Junagam	Industrial	76	18	8.3	11.8	BDL	--	--	BDL
18	AA05	12.5.21	Junagam	Industrial	89	32	9.2	10.9	BDL	--	--	BDL

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration (µg/m ³)						Average Pollutant Conc. (mg/m ³)	Average Pollutant Conc. (ng/m ³)
					PM 10	PM _{2.5}	SO ₂	NO _x	NH ₃	HC	CO	As
					24 hr	24 hr	24 hr	24 hr	24 hr		1 hr	24 hr
CPC B Norms	Industrial, Residential, Rural and Other Area				100	60	80	80	400	NS	4	6
	Ecologically Sensitive Area (Notified by Central Govt.)				100	60	80	30	400	NS	4	6
19	AA05	17.5.21	Junagam	Industrial	94	21	8.8	13.0	BDL	--	--	BDL
20	AA05	18.5.21	Junagam	Industrial	78	26	14.0	12.5	BDL	1092	1.13	BDL
21	AA05	6.6.21	Junagam	Industrial	78	26	14.0	12.5	BDL	1092	1.13	BDL
1	AA06	7.3.21	Mora	Residential	105	47	7.9	12.4	BDL	--	--	BDL
2	AA06	8.3.21	Mora	Residential	114	54	9.4	10.9	BDL	1089	1.01	BDL
3	AA06	15.3.21	Mora	Residential	32	13	8.2	11.6	BDL	--	--	BDL
4	AA06	16.3.21	Mora	Residential	41	27	9.1	13.4	BDL	--	--	BDL
5	AA06	23.3.21	Mora	Residential	112	11	7.7	11.0	BDL	--	--	BDL
6	AA06	24.3.21	Mora	Residential	109	18	8.8	12.0	BDL	--	--	BDL
7	AA06	1.4.21	Mora	Residential	55	9	9.6	13.8	BDL	1097	1.35	BDL
8	AA06	2.4.21	Mora	Residential	33	16	8.0	10.1	BDL	--	--	BDL
9	AA06	10.4.21	Mora	Residential	68	10	9.7	13.4	BDL	--	--	BDL
10	AA06	11.4.21	Mora	Residential	80	9	7.2	12.5	BDL	--	--	BDL
11	AA06	18.4.21	Mora	Residential	113	13	8.2	10.7	BDL	1082	1.23	BDL
12	AA06	19.4.21	Mora	Residential	102	20	8.6	12.2	BDL	--	--	BDL
13	AA06	26.4.21	Mora	Residential	66	42	7.4	11.3	BDL	--	--	BDL
14	AA06	27.4.21	Mora	Residential	42	11	9.1	13.7	BDL	--	--	BDL

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration (µg/m ³)						Average Pollutant Conc. (mg/m ³)	Average Pollutant Conc. (ng/m ³)
					PM 10	PM _{2.5}	SO ₂	NO _x	NH ₃	HC	CO	As
					24 hr	24 hr	24 hr	24 hr	24 hr		1 hr	24 hr
CPC B Norms	Industrial, Residential, Rural and Other Area				100	60	80	80	400	NS	4	6
	Ecologically Sensitive Area (Notified by Central Govt.)				100	60	80	30	400	NS	4	6
15	AA06	3.5.21	Mora	Residential	105	47	9.4	10.2	BDL	1135	1.11	BDL
16	AA06	4.5.21	Mora	Residential	32	14	7.2	11.0	BDL	--	--	BDL
17	AA06	11.5.21	Mora	Residential	86	14	8.3	12.4	BDL	--	--	BDL
18	AA06	12.5.21	Mora	Residential	79	8	9.2	13.2	BDL	1117	1.23	BDL
19	AA06	17.5.21	Mora	Residential	85	26	10.8	16.0	BDL	--	--	BDL
20	AA06	18.5.21	Mora	Residential	92	34	7.6	10.6	BDL	1118	1.28	BDL
21	AA06	6.6.21	Mora	Residential	92	34	7.6	10.6	BDL	1117	1.28	BDL
1	AA07	9.3.21	22.3.21	Industrial	122	47	8.0	11.0	BDL	--	--	BDL
2	AA07	10.3.21	23.3.21	Industrial	104	43	8.9	12.2	BDL	--	--	BDL
3	AA07	17.3.21	30.3.21	Industrial	43	40	7.5	11.9	BDL	--	--	BDL
4	AA07	18.3.21	31.3.21	Industrial	86	29	8.9	13.1	BDL	984	1.17	BDL
5	AA07	25.3.21	7.4.21	Industrial	91	44	7.8	12.3	BDL	--	--	BDL
6	AA07	26.3.21	8.4.21	Industrial	67	10	7.4	10.8	BDL	--	--	BDL
7	AA07	3.4.21	15.4.21	Industrial	108	30	9.4	11.5	BDL	--	--	BDL
8	AA07	4.4.21	16.4.21	Industrial	79	21	8.7	10.6	BDL	--	--	BDL
9	AA07	12.4.21	23.4.21	Industrial	74	13	8.9	13.2	BDL	--	--	BDL
10	AA07	13.4.21	24.4.21	Industrial	128	22	7.8	12.9	BDL	1074	1.2	BDL

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration (µg/m ³)						Average Pollutant Conc. (mg/m ³)	Average Pollutant Conc. (ng/m ³)
					PM 10	PM _{2.5}	SO ₂	NO _x	NH ₃	HC	CO	As
					24 hr	24 hr	24 hr	24 hr	24 hr		1 hr	24 hr
CPC B Norms	Industrial, Residential, Rural and Other Area				100	60	80	80	400	NS	4	6
	Ecologically Sensitive Area (Notified by Central Govt.)				100	60	80	30	400	NS	4	6
11	AA07	20.4.21	1.5.21	Industrial	49	23	8.4	11.6	BDL	--	--	BDL
12	AA07	21.4.21	2.5.21	Industrial	96	21	9.6	10.9	BDL	--	--	BDL
13	AA07	28.4.21	9.5.21	Industrial	118	16	7.1	13.2	BDL	--	--	BDL
14	AA07	29.4.21	10.5.21	Industrial	128	14	8.4	11.8	BDL	--	--	BDL
15	AA07	5.5.21	17.5.21	Industrial	64	9	7.5	12.0	BDL	--	--	BDL
16	AA07	13.5.21	25.5.21	Industrial	97	15	8.3	13.2	BDL	1141	1.19	BDL
17	AA07	3.6.21	26.5.21	Industrial	89	11	9.6	13.9	BDL	--	--	BDL
18	AA07	4.6.21	2.6.21	Industrial	87	29	6.0	10.7	BDL	--	--	BDL
19	AA07	21.5.21	3.6.21	Industrial	92	34	7.9	8.3	BDL	--	--	BDL
20	AA07	24.5.21	6.6.21	Industrial	74	24	11.6	16.6	BDL	--	--	BDL
21	AA07	25.5.21	7.6.21	Industrial	82	29	16.1	15.3	BDL	--	--	BDL
1	AA08	9.3.21	Gaviyer	Residential	112	57	9.7	11.4	BDL	1126	0.96	BDL
2	AA08	10.3.21	Gaviyer	Residential	110	52	8.2	10.1	BDL	--	--	BDL
3	AA08	17.3.21	Gaviyer	Residential	109	30	7.7	11.3	BDL	--	--	BDL
4	AA08	18.3.21	Gaviyer	Residential	90	38	9.2	13.6	BDL	--	--	BDL
5	AA08	25.3.21	Gaviyer	Residential	105	17	8.6	12.3	BDL	--	--	BDL
6	AA08	26.3.21	Gaviyer	Residential	91	11	8.5	13.4	BDL	--	--	BDL

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration ($\mu\text{g}/\text{m}^3$)						Average Pollutant Conc. (mg/m^3)	Average Pollutant Conc. (ng/m^3)
					PM 10	PM2.5	SO2	NOx	NH3	HC	CO	As
					24 hr	24 hr	24 hr	24 hr	24 hr		1 hr	24 hr
CPC B Norms	Industrial, Residential, Rural and Other Area				100	60	80	80	400	NS	4	6
	Ecologically Sensitive Area (Notified by Central Govt.)				100	60	80	30	400	NS	4	6
7	AA08	3.4.21	Gaviyer	Residential	107	15	7.3	11.8	BDL	1027	1.01	BDL
8	AA08	4.4.21	Gaviyer	Residential	100	17	8.4	10.9	BDL	--	--	BDL
9	AA08	12.4.21	Gaviyer	Residential	123	12	9.1	12.0	BDL	--	--	BDL
10	AA08	13.4.21	Gaviyer	Residential	58	9	7.9	13.9	BDL	--	--	BDL
11	AA08	20.4.21	Gaviyer	Residential	55	17	8.8	11.7	BDL	--	--	BDL
12	AA08	21.4.21	Gaviyer	Residential	127	11	8.6	10.5	BDL	1085	1.19	BDL
13	AA08	28.4.21	Gaviyer	Residential	74	10	9.3	12.1	BDL	--	--	BDL
14	AA08	29.4.21	Gaviyer	Residential	93	14	7.4	10.7	BDL	--	--	BDL
15	AA08	5.5.21	Gaviyer	Residential	78	22	9.1	13.3	BDL	--	--	BDL
16	AA08	13.5.21	Gaviyer	Residential	56	26	8.6	13.8	BDL	1097	1.13	BDL
17	AA08	3.6.21	Gaviyer	Residential	80	25	7.5	10.6	BDL	--	--	BDL
18	AA08	4.6.21	Gaviyer	Residential	95	32	10.7	13.4	BDL	--	--	BDL
19	AA08	21.5.21	Gaviyer	Residential	74	21	11.0	7.1	BDL	--	--	BDL
20	AA08	24.5.21	Gaviyer	Residential	81	28	7.0	10.3	BDL	1080	1.28	BDL
21	AA08	25.5.21	Gaviyer	Residential	58	27	6.3	13.5	BDL	--	--	BDL

One Month Additional Monitoring date wise results

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration (All units are in µg/m ³ except CO in mg/m ³ and As, Ni, BaP in ng/m ³)												BaP	C6H6
					PM10	PM2.5	SO2	NOx	NH3	O3	Pb	As	Ni	Hg	HC	CO		
					24 hr	24 hr	24 hr	24 hr	24 hr	8 hr	24 hr	24 hr	24 hr	-	GRA B	1 hr		
NAAQS 2009		Industrial, Residential, Rural and Other Area →			100	60	80	80	400	100	1	6	20	NS	NS	4	1	5
Permissible limits		Ecologically Sensitive Area (Notified by Central Govt.)→			100	60	80	80	400	100	1	6	20	NS	NS	4	1	5
AAQ1		24.11.21	At Site	Industrial	84	29	7.1	16.5	BDL	18.8	BDL	BDL	BDL	ND	897	1.256	0.11	BDL
		25.11.21	At Site	Industrial	91	27	8.6	13.9	BDL	6.1	BDL	BDL	BDL	ND	--	--	0.08	BDL
		10.12.21	At Site	Industrial	111	22	5.2	13.1	BDL	--	BDL	BDL	BDL	ND	1012	1.042	0.07	BDL
		11.12.21	At Site	Industrial	78	33	8.6	13.9	BDL	10.7	BDL	BDL	BDL	ND	--	--	0.28	BDL
		14.12.21	At Site	Industrial	126	37	5.2	13.1	BDL	--	BDL	BDL	BDL	ND	843	1.021	0.46	BDL
		15.12.21	At Site	Industrial	73	31	8.6	13.9	BDL	9.1	BDL	BDL	BDL	ND	--	--	0.14	BDL
		20.12.21	At Site	Industrial	78	52	5.2	13.1	BDL	12.6	BDL	BDL	BDL	ND	717	0.676	<0.01	BDL
		21.12.21	At Site	Industrial	136	54	8.6	13.9	BDL	--	BDL	BDL	BDL	ND	--	--	<0.01	BDL

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration (All units are in µg/m3 except CO in mg/m3 and As, Ni, BaP in ng/m3)												BaP	C6H6
					PM10	PM2.5	SO2	NOx	NH3	O3	Pb	As	Ni	Hg	HC	CO		
					24 hr	24 hr	24 hr	24 hr	24 hr	8 hr	24 hr	24 hr	24 hr	-	GRA B	1 hr		
NAAQS 2009			Industrial, Residential, Rural and Other Area →		100	60	80	80	400	100	1	6	20	NS	NS	4	1	5
Permissible limits			Ecologically Sensitive Area (Notified by Central Govt.)→		100	60	80	80	400	100	1	6	20	NS	NS	4	1	5
AAQ2		24.11.21	STP AREA	Industrial	45	35	6.7	15.9	BDL	16.1	BDL	BDL	BDL	ND	928	0.724	0.19	BDL
		25.11.21	STP AREA	Industrial	124	37	8.2	14.2	BDL	--	BDL	BDL	BDL	ND	--	--	0.36	BDL
		04.12.21	STP AREA	Industrial	79	39	7.7	13.4	BDL	9.1	BDL	BDL	BDL	ND	762	0.885	0.76	BDL
		05.12.21	STP AREA	Industrial	115	59	6.8	12.5	BDL	--	BDL	BDL	BDL	ND	--	--	0.45	BDL
		08.12.21	STP AREA	Industrial	67	31	5.0	12.0	BDL	13.3	BDL	BDL	BDL	ND	796	1.041	0.06	BDL
		09.12.21	STP AREA	Industrial	34	34	8.9	15.5	BDL	--	BDL	BDL	BDL	ND	--	--	0.25	BDL
		12.12.21	STP AREA	Industrial	104	39	7.7	13.4	BDL	6.1	BDL	BDL	BDL	ND	--	--	0.44	BDL
		13.12.21	STP AREA	Industrial	56	25	7.1	13.1	BDL	--	BDL	BDL	BDL	ND	--	--	0.22	BDL
		16.12.21	STP AREA	Industrial	80	27	8.1	14.0	BDL	14.5	BDL	BDL	BDL	ND	873	0.951	0.13	BDL

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration (All units are in µg/m ³ except CO in mg/m ³ and As, Ni, BaP in ng/m ³)												BaP	C6H6
					PM10	PM2.5	SO2	NOx	NH3	O3	Pb	As	Ni	Hg	HC	CO		
					24 hr	24 hr	24 hr	24 hr	24 hr	8 hr	24 hr	24 hr	24 hr	-	GRA B	1 hr		
NAAQS 2009			Industrial, Residential, Rural and Other Area →		100	60	80	80	400	100	1	6	20	NS	NS	4	1	5
Permissible limits			Ecologically Sensitive Area (Notified by Central Govt.)→		100	60	80	80	400	100	1	6	20	NS	NS	4	1	5
		17.12.21	STP AREA	Industrial	103	23	7.1	13.1	BDL	--	BDL	BDL	BDL	ND	--	--	0.19	BDL
AAQ3		26.11.21	HAZIRA VILLAGE	Residential	107	41	7.8	13.0	BDL	17.7	BDL	BDL	BDL	ND	788	0.772	0.26	BDL
		27.11.21	HAZIRA VILLAGE	Residential	125	57	6.9	15.0	BDL	--	BDL	BDL	BDL	ND	--	--	0.19	BDL
		04.12.21	HAZIRA VILLAGE	Residential	51	35	6.2	15.8	BDL	17.8	BDL	BDL	BDL	ND	920	0.928	0.15	BDL
		05.12.21	HAZIRA VILLAGE	Residential	97	43	6.8	19.8	BDL	4.8	BDL	BDL	BDL	ND	--	--	0.22	BDL
		10.12.21	HAZIRA VILLAGE	Residential	110	33	5.9	19.6	BDL	--	BDL	BDL	BDL	ND	997	0.693	0.35	BDL
		11.12.21	HAZIRA VILLAGE	Residential	65	52	6.8	18.0	BDL	3.2	BDL	BDL	BDL	ND	--	--	0.43	BDL
		20.12.21	HAZIRA VILLAGE	Residential	108	48	6.2	19.7	BDL	--	BDL	BDL	BDL	ND	889	0.962	0.59	BDL
	21.12.21	HAZIRA VILLAGE	Residential	74	47	7.1	18.8	BDL	5.4	BDL	BDL	BDL	ND	--	--	0.55	BDL	

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration (All units are in µg/m3 except CO in mg/m3 and As, Ni, BaP in ng/m3)												BaP	C6H6
					PM10	PM2.5	SO2	NOx	NH3	O3	Pb	As	Ni	Hg	HC	CO		
					24 hr	24 hr	24 hr	24 hr	24 hr	8 hr	24 hr	24 hr	24 hr	-	GRA B	1 hr		
NAAQS 2009			Industrial, Residential, Rural and Other Area →		100	60	80	80	400	100	1	6	20	NS	NS	4	1	5
Permissible limits			Ecologically Sensitive Area (Notified by Central Govt.)→		100	60	80	80	400	100	1	6	20	NS	NS	4	1	5
AAQ4	26.11.21	HAZIRA AGANWADI	Residential	86	48	7.5	14.2	BDL	11.4	BDL	BDL	BDL	ND	897	0.827	0.23	BDL	
	27.11.21	HAZIRA AGANWADI	Residential	111	34	8.1	13.7	BDL	3.2	BDL	BDL	BDL	ND	--	--	0.20	BDL	
	04.12.21	HAZIRA AGANWADI	Residential	94	29	7.2	14.6	BDL	--	BDL	BDL	BDL	ND	974	0.600	0.18	BDL	
	05.12.21	HAZIRA AGANWADI	Residential	112	40	6.6	13.4	BDL	7.3	BDL	BDL	BDL	ND	--	--	0.20	BDL	
	10.12.21	HAZIRA AGANWADI	Residential	97	58	7.5	14.2	BDL	--	BDL	BDL	BDL	ND	855	0.693	0.21	BDL	
	11.12.21	HAZIRA AGANWADI	Residential	72	32	8.1	18.4	BDL	6.7	BDL	BDL	BDL	ND	--	--	0.25	BDL	
	20.12.21	HAZIRA AGANWADI	Residential	95	41	7.5	20.2	BDL	5.1	BDL	BDL	BDL	ND	928	0.734	0.30	BDL	
	21.12.21	HAZIRA AGANWADI	Residential	94	34	8.1	23.8	BDL	--	BDL	BDL	BDL	ND	--	--	0.30	BDL	
AAQ5	28.11.21	SUVALI	Residential	121	36	6.3	19.3	BDL	6.1	BDL	BDL	BDL	ND	728	0.600	0.33	BDL	

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration (All units are in µg/m3 except CO in mg/m3 and As, Ni, BaP in ng/m3)												BaP	C6H6
					PM10	PM2.5	SO2	NOx	NH3	O3	Pb	As	Ni	Hg	HC	CO		
					24 hr	24 hr	24 hr	24 hr	24 hr	8 hr	24 hr	24 hr	24 hr	-	GRA B	1 hr		
NAAQS 2009		Industrial, Residential, Rural and Other Area →			100	60	80	80	400	100	1	6	20	NS	NS	4	1	5
Permissible limits		Ecologically Sensitive Area (Notified by Central Govt.)→			100	60	80	80	400	100	1	6	20	NS	NS	4	1	5
		29.11.21	SUVALI	Residential	83	32	7.2	21.8	BDL	12.1	BDL	BDL	BDL	ND	--	--	0.17	BDL
		06.12.21	SUVALI	Residential	65	14	6.6	15.7	BDL	--	BDL	BDL	BDL	ND	937	0.928	0.24	BDL
		07.12.21	SUVALI	Residential	55	35	6.6	20.2	BDL	10.1	BDL	BDL	BDL	ND	--	--	<0.01	BDL
		14.12.21	SUVALI	Residential	62	20	7.2	21.8	BDL	--	BDL	BDL	BDL	ND	856	1.052	0.27	BDL
		15.12.21	SUVALI	Residential	110	34	9.4	15.7	BDL	--	BDL	BDL	BDL	ND	--	--	0.33	BDL
		20.12.21	SUVALI	Residential	67	30	7.2	21.8	BDL	5.7	BDL	BDL	BDL	ND	--	--	0.40	BDL
		21.12.21	SUVALI	Residential	108	36	6.9	16.4	BDL	7.9	BDL	BDL	BDL	ND	825	0.600	0.73	BDL
AAQ6		28.11.21	At site (SW Corner)	Residential	112	56	6.6	14.2	BDL	--	BDL	BDL	BDL	ND	928	0.884	0.28	BDL
		29.11.21	At site (SW Corner)	Residential	71	57	7.5	13.5	BDL	3.8	BDL	BDL	BDL	ND	--	--	0.09	BDL

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration (All units are in µg/m3 except CO in mg/m3 and As, Ni, BaP in ng/m3)												BaP	C6H6
					PM10	PM2.5	SO2	NOx	NH3	O3	Pb	As	Ni	Hg	HC	CO		
					24 hr	24 hr	24 hr	24 hr	24 hr	8 hr	24 hr	24 hr	24 hr	-	GRA B	1 hr		
NAAQS 2009			Industrial, Residential, Rural and Other Area →		100	60	80	80	400	100	1	6	20	NS	NS	4	1	5
Permissible limits			Ecologically Sensitive Area (Notified by Central Govt.)→		100	60	80	80	400	100	1	6	20	NS	NS	4	1	5
		08.12.21	At site (SW Corner)	Residential	63	17	6.6	14.2	BDL	8.2	BDL	BDL	BDL	ND	1007	1.034	0.02	BDL
		09.12.21	At site (SW Corner)	Residential	72	58	7.5	13.5	BDL	--	BDL	BDL	BDL	ND	--	--	0.15	BDL
		12.12.21	At site (SW Corner)	Residential	108	54	6.3	13.6	BDL	6.3	BDL	BDL	BDL	ND	958	0.600	0.22	BDL
		13.12.21	At site (SW Corner)	Residential	77	51	7.9	21.9	BDL	--	BDL	BDL	BDL	ND	--	--	0.39	BDL
		23.12.21	At site (SW Corner)	Residential	113	55	6.6	18.6	BDL	4.4	BDL	BDL	BDL	ND	--	--	<0.01	BDL
		24.12.21	At site (SW Corner)	Residential	97	52	7.5	15.2	BDL	12.1	BDL	BDL	BDL	ND	880	0.817	0.14	BDL
		30.11.21	MORA	Residential	42	34	7.5	18.6	BDL	--	BDL	BDL	BDL	ND	815	0.918	0.10	BDL
		01.12.21	MORA	Residential	119	28	6.6	11.4	BDL	11.4	BDL	BDL	BDL	ND	--	--	0.10	BDL
		06.12.21	MORA	Residential	105	58	10.3	18.3	BDL	--	BDL	BDL	BDL	ND	942	0.620	0.45	BDL

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration (All units are in µg/m3 except CO in mg/m3 and As, Ni, BaP in ng/m3)											BaP	C6H6	
					PM10	PM2.5	SO2	NOx	NH3	O3	Pb	As	Ni	Hg	HC			CO
					24 hr	24 hr	24 hr	24 hr	24 hr	8 hr	24 hr	24 hr	24 hr	-	GRA B			1 hr
NAAQS 2009		Industrial, Residential, Rural and Other Area →			100	60	80	80	400	100	1	6	20	NS	NS	4	1	5
Permissible limits		Ecologically Sensitive Area (Notified by Central Govt.)→			100	60	80	80	400	100	1	6	20	NS	NS	4	1	5
	07.12.21	MORA	Residential	74	56	7.5	18.6	BDL	7.6	BDL	BDL	BDL	ND	--	--	0.91	BDL	
	12.12.21	MORA	Residential	105	40	6.6	11.4	BDL	--	BDL	BDL	BDL	ND	1013	0.600	0.32	BDL	
	13.12.21	MORA	Residential	71	24	10.3	18.3	BDL	13.9	BDL	BDL	BDL	ND	--	--	0.08	BDL	
	23.12.21	MORA	Residential	48	22	6.6	16.2	BDL	5.7	BDL	BDL	BDL	ND	902	0.786	0.02	BDL	
	24.12.21	MORA	Residential	42	15	11.3	20.1	BDL	8.8	BDL	BDL	BDL	ND	--	--	0.10	BDL	
AAQ8	30.11.21	DAMKA	Residential	77	21	7.8	14.1	BDL	11.5	BDL	BDL	BDL	ND	871	0.600	0.08	BDL	
	01.12.21	DAMKA	Residential	40	12	9.4	15.9	BDL	--	BDL	BDL	BDL	ND	--	--	0.02	BDL	
	08.12.21	DAMKA	Residential	79	26	8.4	15.2	BDL	8.8	BDL	BDL	BDL	ND	941	0.800	0.09	BDL	
	09.12.21	DAMKA	Residential	85	23	9.4	15.9	BDL	--	BDL	BDL	BDL	ND	--	--	0.06	BDL	

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration (All units are in µg/m3 except CO in mg/m3 and As, Ni, BaP in ng/m3)												BaP	C6H6
					PM10	PM2.5	SO2	NOx	NH3	O3	Pb	As	Ni	Hg	HC	CO		
					24 hr	24 hr	24 hr	24 hr	24 hr	8 hr	24 hr	24 hr	24 hr	-	GRA B	1 hr		
NAAQS 2009			Industrial, Residential, Rural and Other Area →		100	60	80	80	400	100	1	6	20	NS	NS	4	1	5
Permissible limits			Ecologically Sensitive Area (Notified by Central Govt.)→		100	60	80	80	400	100	1	6	20	NS	NS	4	1	5
		16.12.21	DAMKA	Residential	50	19	8.1	14.6	BDL	15.2	BDL	BDL	BDL	ND	1012	0.600	0.10	BDL
		17.12.21	DAMKA	Residential	114	37	9.0	15.2	BDL	--	BDL	BDL	BDL	ND	--	--	0.13	BDL
		23.12.21	DAMKA	Residential	45	22	8.4	15.2	BDL	6.3	BDL	BDL	BDL	ND	961	0.896	0.03	BDL
		24.12.21	DAMKA	Residential	89	23	9.4	15.9	BDL	9.1	BDL	BDL	BDL	ND	--	--	0.19	BDL
		28.11.21	KAVAS	Residential	132	19	7.5	13.7	BDL	5.7	BDL	BDL	BDL	ND	721	0.719	0.03	BDL
		29.11.21	KAVAS	Residential	24	32	6.6	20.6	BDL	--	BDL	BDL	BDL	ND	--	--	0.07	BDL
		06.12.21	KAVAS	Residential	92	56	10.3	17.4	BDL	--	BDL	BDL	BDL	ND	920	0.922	0.07	BDL
		07.12.21	KAVAS	Residential	133	54	7.5	13.7	BDL	8.2	BDL	BDL	BDL	ND	--	--	0.03	BDL
		14.12.21	KAVAS	Residential	110	55	6.6	20.6	BDL	13.3	BDL	BDL	BDL	ND	946	0.600	0.06	BDL

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration (All units are in µg/m3 except CO in mg/m3 and As, Ni, BaP in ng/m3)												BaP	C6H6
					PM10	PM2.5	SO2	NOx	NH3	O3	Pb	As	Ni	Hg	HC	CO		
					24 hr	24 hr	24 hr	24 hr	24 hr	8 hr	24 hr	24 hr	24 hr	-	GRA B	1 hr		
NAAQS 2009			Industrial, Residential, Rural and Other Area →		100	60	80	80	400	100	1	6	20	NS	NS	4	1	5
Permissible limits			Ecologically Sensitive Area (Notified by Central Govt.)→		100	60	80	80	400	100	1	6	20	NS	NS	4	1	5
		15.12.21	KAVAS	Residential	57	30	10.3	17.4	BDL	--	BDL	BDL	BDL	ND	--	--	0.04	BDL
		23.12.21	KAVAS	Residential	49	17	6.6	20.6	BDL	7.6	BDL	BDL	BDL	ND	920	0.807	0.02	BDL
		24.12.21	KAVAS	Residential	24	11	10.3	17.4	BDL	7.6	BDL	BDL	BDL	ND	--	--	0.06	BDL
AAQ10		30.11.21	GAVIYER	Residential	70.6	53.4	7.5	14.5	BDL	8.8	BDL	BDL	BDL	ND	1011	0.929	0.08	BDL
		01.12.21	GAVIYER	Residential	78.2	47.8	6.6	18.2	BDL	--	BDL	BDL	BDL	ND	--	--	0.08	BDL
		08.12.21	GAVIYER	Residential	65	34	7.2	14.5	BDL	10.1	BDL	BDL	BDL	ND	898	0.600	0.02	BDL
		09.12.21	GAVIYER	Residential	43	24	6.3	17.4	BDL	5.4	BDL	BDL	BDL	ND	--	--	0.10	BDL
		14.12.21	GAVIYER	Residential	69	26	7.5	15.1	BDL	--	BDL	BDL	BDL	ND	1018	0.718	0.13	BDL
		15.12.21	GAVIYER	Residential	103	50	6.6	18.2	BDL	4.8	BDL	BDL	BDL	ND	--	--	0.03	BDL

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration (All units are in µg/m3 except CO in mg/m3 and As, Ni, BaP in ng/m3)												BaP	C6H6
					PM10	PM2.5	SO2	NOx	NH3	O3	Pb	As	Ni	Hg	HC	CO		
					24 hr	24 hr	24 hr	24 hr	24 hr	8 hr	24 hr	24 hr	24 hr	-	GRA B	1 hr		
NAAQS 2009			Industrial, Residential, Rural and Other Area →		100	60	80	80	400	100	1	6	20	NS	NS	4	1	5
Permissible limits			Ecologically Sensitive Area (Notified by Central Govt.)→		100	60	80	80	400	100	1	6	20	NS	NS	4	1	5
		25.12.21	GAVIYER	Residential	76	24	7.5	15.1	BDL	10.7	BDL	BDL	BDL	ND	905	0.600	0.02	BDL
		26.12.21	GAVIYER	Residential	54	11	6.6	18.2	BDL	--	BDL	BDL	BDL	ND	--	--	0.04	BDL
		04.12.21	DUMAS	Residential	84	18	7.2	13.6	BDL	12.7	BDL	BDL	BDL	ND	1066	0.600	0.02	BDL
		05.12.21	DUMAS	Residential	100	26	8.1	20.8	BDL	--	BDL	BDL	BDL	ND	--	--	0.02	BDL
		10.12.21	DUMAS	Residential	99	39	7.2	13.6	BDL	7.9	BDL	BDL	BDL	ND	874	0.600	0.11	BDL
		11.12.21	DUMAS	Residential	69	37	8.1	20.8	BDL	--	BDL	BDL	BDL	ND	--	--	0.15	BDL
		16.12.21	DUMAS	Residential	62	27	7.5	14.2	BDL	8.5	BDL	BDL	BDL	ND	946	0.807	0.07	BDL
		17.12.21	DUMAS	Residential	93	19	8.4	21.7	BDL	6.1	BDL	BDL	BDL	ND	--	--	0.03	BDL
		25.12.21	DUMAS	Residential	48	18	7.5	14.2	BDL	--	BDL	BDL	BDL	ND	905	0.918	0.04	BDL

S. No	Station Code	Sampling Date	Sampling Location	Area /Category	Average Pollutant Concentration (All units are in µg/m3 except CO in mg/m3 and As, Ni, BaP in ng/m3)												BaP	C6H6
					PM10	PM2.5	SO2	NOx	NH3	O3	Pb	As	Ni	Hg	HC	CO		
					24 hr	24 hr	24 hr	24 hr	24 hr	8 hr	24 hr	24 hr	24 hr	-	GRA B	1 hr		
NAAQS 2009	Industrial, Residential, Rural and Other Area →			100	60	80	80	400	100	1	6	20	NS	NS	4	1	5	
Permissible limits	Ecologically Sensitive Area (Notified by Central Govt.)→			100	60	80	80	400	100	1	6	20	NS	NS	4	1	5	
	26.12.21	DUMAS	Residential	68	28	8.1	20.8	BDL	5.7	BDL	BDL	BDL	ND	--	--	0.03	BDL	
AAQ12	30.11.21	VANTA	Residential	121	61	7.5	20.2	BDL	12.0	BDL	BDL	BDL	ND	1095	0.721	0.05	BDL	
	01.12.21	VANTA	Residential	114	39	6.6	13.7	BDL	5.1	BDL	BDL	BDL	ND	--	--	0.07	BDL	
	06.12.21	VANTA	Residential	115	37	7.2	17.6	BDL	--	BDL	BDL	BDL	ND	893	0.852	0.09	BDL	
	07.12.21	VANTA	Residential	48	25	7.5	20.2	BDL	--	BDL	BDL	BDL	ND	--	--	0.10	BDL	
	12.12.21	VANTA	Residential	50	27	6.3	13.1	BDL	10.9	BDL	BDL	BDL	ND	982	0.825	0.33	BDL	
	13.12.21	VANTA	Residential	72	31	7.9	19.2	BDL	10.7	BDL	BDL	BDL	ND	--	--	0.56	BDL	
	25.12.21	VANTA	Residential	60	50	6.6	13.7	BDL	--	BDL	BDL	BDL	ND	1027	0.912	0.03	BDL	
	26.12.21	VANTA	Residential	134	35	8.2	20.1	BDL	7.3	BDL	BDL	BDL	ND	--	--	0.32	BDL	

Annexure 11: NABET and NABL Certificate




Quality Council of India
National Accreditation Board for
Education & Training

CERTIFICATE OF ACCREDITATION

Kadam Environmental Consultants
871/B/3, GIDC Makarpura, Vadodara – 390010, Gujarat

Accredited as **Category - A** organization under the QCI-NABET Scheme for Accreditation of EIA Consultant Organizations: Version 3 for preparing EIA-EMP reports in the following Sectors:

Sl. No.	Sector Description	Sector (as per)		Cat.
		NABET	MoEFCC	
1	Mining of minerals including Open cast/ Underground mining	1	1 (a) (i)	A
2	Offshore and onshore oil and gas exploration, development & production	2	1 (b)	A
3	Thermal power plants	4	1 (d)	A
4	Coal Washeries	6	2 (a)	A
5	Mineral beneficiation including pelletisation	7	2 (b)	A
6	Metallurgical industries (ferrous & non ferrous)	8	3 (a)	B
7	Petroleum refining industry	10	4 (a)	A
8	Chlor-alkali industry	13	4 (d)	A
9	Chemical Fertilizers	16	5 (a)	A
10	Pesticides industry and pesticide specific intermediates (excluding formulations)	17	5 (b)	A
11	Petro-chemical complexes	18	5 (c)	A
12	Manmade fibers manufacturing	19	5 (d)	A
13	Petrochemical based processing	20	5 (e)	A
14	Synthetic organic chemicals industry	21	5 (f)	A
15	Integrated paint industry	23	5 (h)	A
16	Oil & gas transportation pipeline	27	6 (a)	A
17	Isolated storage & handling of hazardous chemicals	28	6 (b)	B
18	All ship breaking yards including ship breaking units	30	7 (b)	A
19	Industrial estates/ parks/ complexes/ Areas, export processing zones (EPZs), Special economic zones (SEZs), Biotech parks, Leather complexes	31	7 (c)	B
20	Common hazardous waste treatment, storage and disposal facilities (TSDFs)	32	7 (d)	A
21	Bio-medical waste treatment facilities	32A	7 (da)	B
22	Ports, harbours, break waters and dredging	33	7 (e)	A
23	Common effluent treatment plants (CETPs)	36	7 (h)	B
24	Common Municipal Solid Waste Management Facility (CMSWMF)	37	7 (i)	B
25	Building and construction projects	38	8 (a)	B
26	Townships and Area Development projects	39	8 (b)	B

Note: Names of approved EIA Coordinators and Functional Area Experts are mentioned in RA AC minutes dated July 05, 2019 posted on QCI-NABET website.

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no. QCI/NABET/ENV/ACO/19/1025 dated August 05, 2019. The accreditation needs to be renewed before the expiry date by Kadam Environmental Consultants, Vadodara, following due process of assessment.

Sr. Director, NABET
Dated: August 05, 2019

Certificate No.
NABET/ EIA/1922/ RA 0138

Valid till
25.05.2022

For the updated List of Accredited EIA Consultant Organizations with approved Sectors please refer to QCI-NABET website.


QUALITY COUNCIL OF INDIA
 Creating an Ecosystem for Quality


NABET

National Accreditation Board for Education and Training


NABET

Certificate of Accreditation

Kadam Environmental Consultants

871/B/3, GIDC Makarpura, Vadodara- 390010, Gujarat

The organization is accredited as **Category-A** under the QCI-NABET Scheme for Accreditation of EIA Consultant Organization, Version 3: for preparing EIA-EMP reports in the following Sectors –

S. No	Sector Description	Sector (as per)		Cat.
		NABET	MoEFCC	
1	Mining of minerals including Open cast/ Underground mining	1	1 (a) (i)	A
2	Offshore and onshore oil and gas exploration, development & production	2	1 (b)	A
3	Thermal power plants	4	1 (d)	A
4	Coal Washeries	6	2 (a)	A
5	Mineral beneficiation including pelletisation	7	2 (b)	A
6	Metallurgical industries (ferrous & non ferrous)	8	3 (a)	A
7	Cement plants	9	3 (b)	B
8	Petroleum refining industry	10	4 (a)	A
9	Coke oven plants	11	4 (b)	A
10	Chlor-alkali industry	13	4 (d)	A
11	Soda ash Industry	14	4 (e)	A
12	Chemical Fertilizers	16	5 (a)	A
13	Pesticides industry and pesticide-specific intermediates (excluding formulations)	17	5 (b)	A
14	Petro-chemical complexes	18	5 (c)	A
15	Manmade fibers manufacturing	19	5 (d)	A
16	Petrochemical based processing	20	5 (e)	A
17	Synthetic organic chemicals industry	21	5 (f)	A
18	Distilleries	22	5 (g)	A
19	Integrated paint industry	23	5 (h)	B
20	Pulp & paper industry	24	5 (i)	A
21	Oil & gas transportation pipeline	27	6 (a)	A
22	All ship breaking yards including ship breaking units	30	7 (b)	A
23	Industrial estates/ parks/ complexes/ Areas	31	7 (c)	B
24	Common hazardous waste treatment, storage and disposal facilities (TSDFs)	32	7 (d)	A
25	Bio-medical waste treatment facilities	32A	7 (da)	B
26	Ports, harbours, breakwaters and dredging	33	7 (e)	A
27	Highways	34	7 (f)	B
28	Common effluent treatment plants (CETPs)	36	7 (h)	B
29	Common Municipal Solid Waste Management Facility (CMSWMF)	37	7 (i)	B
30	Building and construction projects	38	8 (a)	B
31	Townships and Area Development projects	39	8 (b)	B

Note: Names of approved EIA Coordinators and Functional Area Experts are mentioned in SAAC minutes dated Sep. 14, 2021 and supplementary minutes dated Dec. 14, 2021 and Mar.25, 2022 posted on QCI-NABET website.

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no. QCI/NABET/ENV/ACO/22/2319 dated Apr.19, 2022. The accreditation needs to be renewed before the expiry date by Kadam Environmental Consultants, Vadodara following due process of assessment.


Sr. Director, NABET
Dated: Apr. 19, 2022

Certificate No.
NABET/EIA/2023/SA 0164

Valid up to
Mar. 19, 2023

For the updated List of Accredited EIA Consultant Organizations with approved Sectors please refer to QCI-NABET website.



National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

KADAM ENVIRONMENTAL CONSULTANTS

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

871/B/3, GIDC MAKARPURA, VADODARA, GUJARAT, INDIA

in the field of

TESTING

Certificate Number: TC-7099

Issue Date: 16/04/2020

Valid Until:

26/03/2022

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



National Accreditation Board for
Testing and Calibration Laboratories

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in the field of

TESTING

Certificate Number: TC-7099

Issue Date: 27/03/2022

Valid Until:

26/03/2024

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(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : Kadam Environmental Consultants

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer

Annexure 12: Classification of Landuse

Built up Land or Habitation

It is defined as an area of human habitation developed due to non-agricultural use and that which has a cover of buildings, transport, communication utilities in association with water vegetation and vacant lands.

Kadam has chosen to further define this

Residential / Commercial

Structures used by humans for living and primary landuse category into additional categories, namely residential, industrial and working, but not including structures used exclusively for manufacturing.

Industrial

Structures used for manufacturing products.

Agricultural Land

It is defined as the land primarily used for farming and for production of food, fiber, and other commercial and horticultural crops. It includes land under crops (irrigated and un-irrigated), fallow land and plantations. These are further defined.

Crop Land

It includes those lands with standing crop (per se) as on the date of the satellite imagery. The crops may be of either Kharif (June-September) or Rabi (October – March) or Kharif Rabi seasons.

Fallow Land

It is described as agricultural land which is taken up for cultivation but is temporarily allowed to rest uncropped for one or more seasons, but not less than one year. These lands are particularly those which are seen devoid of crops at the time when the imagery is taken during Rabi and Kharif.

Plantations

Plantations are described as an area under agricultural tree crops (for e.g. mango plantations) planted adopting certain agricultural management techniques. It includes tea, coffee, rubber, coconut, arecanut, citrus, orchards and other horticultural nurseries.

Forests

It is an area (within the notified forest boundary) bearing an association predominantly of trees and other vegetation types capable of producing timber and other forest produce. Forests can be further divided into sub-categories mentioned as follows.

Evergreen / Semi-Evergreen Forests

These are forests which comprise thick and dense canopy of tall trees, which predominantly remain green throughout the year. Such forests include both coniferous and tropical broad-leaved evergreen trees. Semi-evergreen forests are often a mixture of both deciduous and evergreen trees but the latter predominate.

Deciduous Forests

These are described as forests which predominantly comprise of deciduous species and where the trees shed their leaves once in a year.

Degraded Forest or Scrub

It is described as a forest where the vegetative (crown) density is less than 20% of the canopy cover. It is the result of both biotic and abiotic influences. Scrub is a stunted tree or bush/shrub.

Forest Blank

A forest blank is an opening amidst forests without any tree cover. It includes openings of assorted size and shapes as seen on the imagery.

Forest Plantations

It is described as an area of trees of species of forestry importance and raised on notified forest lands. It includes eucalyptus, casuarinas, bamboo, etc.

Mangroves

Mangroves are described as a dense, thicker or woody, aquatic vegetation or forest cover occurring in tidal waters near estuaries and along the confluence of delta in coastal areas. Mangroves include species of the genera *Rhizophora* and *Avicunia*.

Wastelands

Wastelands are described as degraded lands which can be brought under vegetative cover with reasonable water and soil management or on account of natural causes. Wastelands can result from internal / imposed constraints such as by location, environment, chemical and physical prosperities of the soil or financial or management constraints.

Different types of wastelands include salt-affected lands, waterlogged lands, marshy/swampy lands, mudlands, gullied / ravenous lands, land with or without scrub, sandy areas and barren rocky / stony waste / sheet rock areas.

Salt-Affected Land

The salt-affected land is generally characterized as the land that has adverse effects on the growth of most plants due to the action or presence of excess soluble or high exchangeable sodium. Alkaline land has an exchangeable sodium percentage (ESP) of about 15, which is generally considered as the limit between normal and alkali soils. The predominant salts are carbonates and bicarbonates of sodium. Coastal saline soils may be with or without ingress or inundation by seawater.

Waterlogged Land

Waterlogged land is that land where the water is at/or near the surface and water stands for most of the year. Such lands usually occupy topographically low-lying areas. It excludes lakes, ponds and tanks or in the context of the Wetlands (Conservation and Management Rules, 2010) such areas that could be considered as 'protected wetlands'.

Marshy / Swampy Land / Mud Land Area

Marshy land is that which is permanently or periodically inundated by water and is characterized by vegetation, which includes grasses and weeds. Marshes are classified into salt/brackish or fresh water depending on the salinity of water. These exclude Mangroves.

Gullied / Ravenous Land

The 'gullies' are formed as a result of localized surface runoff affecting the friable unconsolidated material in the formation of perceptible channels resulting in undulating terrain. The gullies are the first stage of excessive land dissection followed by their networking which leads to the development of ravenous land. The word 'ravine' is usually associated not with an isolated gully but a network of deep gullies formed generally in

thick alluvium and entering a nearby river, flowing much lower than the surrounding high grounds. The ravines are extensive systems of gullies developed along river courses.

Land with / without Scrub

They occupy (relatively) higher topography like uplands or high grounds with or without scrub. These lands are generally prone to degradation or erosion. These exclude hilly and mountainous terrain.

Sandy Area (Coastal and Desertic)

These are the areas, which have stabilized accumulations of sand in-site or transported in coastal riverine or inland (desert) areas. These occur either in the form of sand dunes, beaches, channel (river/stream) islands, etc.

Barren Rocky / Stony Waste / Sheet Rock Area

It is defined as the rock exposures of varying lithology often barren and devoid of soil cover and vegetation and not suitable for cultivation. They occur amidst hill forests as openings or scattered as isolated exposures or loose fragments of boulders or as sheet rocks on plateau and plains. It includes quarry or gravel pit or brick kilns.

Water Bodies

It is an area of impounded water, areal in extent and often with a regulated flow of water. It includes man-made reservoirs/lakes/tank/canals, besides natural lakes, rivers/streams and creeks.

River / Stream

It is a course of flowing water on the land along definite channels. It includes from a small stream to a big river and its branches. It may be perennial or non-perennial.

Reservoir / Lakes / Ponds / Tanks

It is a natural or man-made enclosed water body with a regulated flow of water. Reservoirs are larger than tanks/lakes and are used for generating electricity, irrigation and for flood control. Tanks are smaller in areal extent with limited use than the former. Canals are inland waterways used for irrigation and sometimes for navigation.

Others

It includes all those landuse and land cover classes which can be treated as miscellaneous because of their nature of occurrence, physical appearance and other characteristics.

Shifting Cultivation

It is the result of cyclic land use practice of felling of trees and burning of forest areas for growing crops. Such lands are also known as jhoom lands and cultivation called jhoom cultivation.

Grassland / Grazing Land

It is an area of land covered with natural grass along with other vegetation, often grown for fodder to feed cattle and other animals. Such lands are found in river beds, on uplands, hill slopes, etc. Such lands can also be called as permanent pastures or meadows. Grazing lands are those where certain pockets of land are fenced for allowing cattle to graze.

Snow Covered / Glacial Area

These are snow-covered areas defined as a solid form of water consisting of minute particles of ice. It includes permanently snow covered areas as on the Himalayas. Glacier is a mass of accumulated ice occurring amidst permanently snow-covered areas.

Vegetation Cover

It is a land area predominantly covered with vegetation and is not part of Protected / Reserved Forest.

Annexure 13: Methodology for Meteorological Data Collection

S. No.	Sampling Parameters	Sample collection		Sampling Frequency	Methodology
		Sampling equipment	Sensitivity/ Detection Limit		
1	Wind Speed	Anemometer cup counter (0 to 65 m/s)	0.25 m/s	Hourly	USEPA Document No. EPA-454/R-99-005, Feb 2000 (Meteorological Monitoring Guidance for Regulatory Modelling Applications)
2	Wind Direction	Wind vane (0° to 357°)	1°		
3	Temperature	Thermometer (-40° to 60°)	0.1°C		
4	Humidity	Relative Humidity meter (0-99%)	3%		
5	Rainfall	Rain gauge	0.5 mm		
6	Cloud Cover	--	--	4 Hourly	Visual Inspection by the observer.

Annexure 14: Methodology for data collection for Ambient Air

S. No.	Env. Component	Sampling location	Total Sampling Period	Sampling Frequency	Sample Collection & Analysis					Method
					Parameters	Field Instrument	Analytical Instrument	Sensitivity	Detection Limit	
1	Ambient Air Quality	12 (Twelve) Locations	Summer Season 2021	24 – hour sample collection twice a week at each station	PM10	Respirable Dust Sampler (RDS) APM-460	Electronic balance	± 0.01 mg	10.0 µg/m ³	IS: 5182: Part 23, 2006, with cyclone
2					PM2.5	Fine Particulate sampler AAS-127	Electronic balance	± 0.01 mg	2.0 µg/m ³	CPCB Guideline volume -1 (Gravimetric method)
3					SO ₂	Impinger Module with control valve & Flow Meter (attached to RDS)	Spectrophotometer	± 0.001 nm	3.75 µg/m ³	IS: 5182: Part 2 (2001)
4					NO _x	Impinger Module with control valve & Flow Meter (attached to RDS)	Spectrophotometer	± 0.001 nm	6 µg/m ³	IS: 5182: Part 6 (2006)
5				Grab sample collection once a week at each station	HC as Methane	Todler Bag/Baladder & Pump	Gas Chromatograph	-	0.327 mg/m ³	IS 5182 (Part 17) : 1979 (RA 2003)

S. No.	Env. Component	Sampling location	Total Sampling Period	Sampling Frequency	Sample Collection & Analysis					Method
					Parameters	Field Instrument	Analytical Instrument	Sensitivity	Detection Limit	
6				1 hour sample collection once a week at each station	CO	Todler Bag/Baladder & Pump	Gas Chromatograph	-	0.57 mg/m ³	IS 5182 (Part 10): 1999 (RA 2009)
7				24 – hour sample collection twice a week 8at each station	NH ₃	Impinger Module with control valve & Flow Meter (attached to RDS)	Spectrophotometer	-	10 µg/m ³	Indo Phenol Blue method
8				24 – hour sample collection twice a week at each station	O ₃	Impinger Module with control valve & Flow Meter (attached to RDS)	Spectrophotometer	-	1 µg/m ³	IS: 5182 (Part 9), 1971 (RA 2009)
9			Pb		Respirable Dust Sampler (RDS) APM-460	AAS/ICPMS	-	1.0 ng/m ³	IS 5182 (Part-22): 2004 (RA-2014)	
10			As		Respirable Dust Sampler (RDS) APM-460	AAS/ICPMS	-	1.0 ng/m ³	APHA 23rd edition (3125-B) 2017	

S. No.	Env. Component	Sampling location	Total Sampling Period	Sampling Frequency	Sample Collection & Analysis					Method
					Parameters	Field Instrument	Analytical Instrument	Sensitivity	Detection Limit	
11					Ni	Respirable Dust Sampler (RDS) APM-460	AAS/ICPMS	-	20 ng/m3	APHA 23rd edition (3125-B) 2017
12					Hg	Respirable Dust Sampler (RDS) APM-460	AAS/ICPMS	-	1.0 ng/m3	APHA (3500 Hg) 25th Edition
13					Benzo (a) Pyrene (BaP)	Respirable Dust Sampler (RDS) APM-460	Gas Chromatograph	-	1.0 ng/m3	IS 5182 (Part 12):2004
14					C6H6		ICP-MS	-	0.001	

Annexure 15: Methodology for Ambient Noise Monitoring

Env. Component	Unit of Measurement	Sampling Frequency	Sample collection		Methodology
			Sampling equipment	Detection Limit	
Ambient Noise levels	dB (A)	Once during the study Hourly reading for 24 hours at each location	Noise Level Meter	0.1 dB (A)	ISLM 100

Annexure 16: Method for analysis of Ground and Surface water

Methodology of Sampling

The purpose of ground water monitoring program and the collections of samples within that program is to obtain representative portions of the aquifer and to obtain in situ measurements at a selected time and place.

The collection of water sample from ground water abstraction structures occur in five (05) steps -

- Sampling preparation,
- Accessing the well before sampling & securing the well after sampling,
- Measuring water level,
- Purging the well, and
- Collecting & delivering the water sample.

Sampling Preparation

The ground water sampling is carried out for analysing suitability of water for drinking purpose. And hence, the field sampling equipment is cleaned and calibrated before sampling. The field investigator must carry:

- Clean water containers from Laboratory
- Container sample labels, markers/pen/pencil
- Field sheets for well-inventory data
- Measuring tape for dimension of borehole i.e. dia. of borehole/casing/outlet, measuring level, etc.
- pumping equipment such as bailer/peristaltic pump
- Water level measuring instrument
- Test kits for measuring field parameters such as pH/TDS.
- Personal protective equipment's, first aid

Accessing the Well before Sampling & Securing the Well after Sampling

In general, the casing of bore-wells/tube-wells are usually packed and occasionally it is more difficult to identify the discharge pipe which is away from the located structures for collecting sample. In case of open-well, sampling is comparatively convenient. Ideally, when testing for ground water, the water sample shall not be collected from the tap.

Sampling is done immediately by direct filling bottles from the tubing outlet of a submersible pump of bore-wells/tube-wells. The location details and reference points must be noted in field data sheet using hand GPS machine and photographs must be taken with reference identification number.

Measuring Water-level

After accessing the ground water structure, the first step is to measure the total depth to the water table using water level measuring instrument. Water-level information is important which may be directly linked to ground water quality changes. Considerable care is taken to avoid tangling or wedging the sampling equipment. The measuring details is noted down in field data sheet with date and time.

Purging the Borehole

As a thumb rule, the standing water within the borehole is exposed to atmospheric conditions and can undergo changes to its physical and chemical characteristics and is not representative of the water in the aquifer, for this reason the borehole is purged before sampling. Also, purging is to reduce the turbidity to the point that the sample will represent the dissolved concentration of contaminants (metals and many organics).

Collecting and Delivering the Samples

The water samples are collected after completion of purging. Before the sample containers are filled, sampling bottles is properly labelled and details is recorded. The field test is completed such as field pH, TDS, etc. Since water samples are not immediately analysed fully in the field, they typically required preservations which ensure the quality of the sample does not change between the time of collection in field and time of analysis in the laboratory. Preservation includes cooling the samples to maintaining the temperature as per required standards by laboratory. If a water sample is analysed for multiple parameters, it requires different preservation methods and to take more than a single sample. The sample is deliver to the laboratory within 2-3 of sampling. If samples are shipped, the sealed sample containers are put into ice box, are then packed with ice coolants and transported to the analytical laboratory by express delivery service. At the laboratory, the samples are logged in given sample ID numbers, and kept cool until they can be analysed.

Selection of Parameters

The ground water samples to be analysed as per the APHA Standard Methods (23rd Edition) for the given parameters in the Technical Guidance published in December 2010.

Also, the baseline monitoring parameters guidance as per NABET & MoEF&CC (for standard/specific ToR) and approved sector at KEC Laboratory considering the sector wise parameters.

Ground Water Quality Testing Methodology

S. No	Parameters	Methodology	Minimum Detection Limit
1	pH	APHA: 4500-H+ B(23 rd Edition), Electrometric method	2
3	Temperature	APHA: 2550 B (23 rd Edition), Standard Thermometer	0.5 Deg C
4	Turbidity	APHA: 2130 B (23 rd Edition), Nephelometric Method	0.1 NTU
5	TDS	APHA: 2540C (23 rd Edition), Gravimetric	3 mg/l
6	Electrical conductivity	APHA: 2510 B (23 rd Edition), Conductivity meter	1µmoh/cm
7	COD	APHA: 5220 B(23 rd Edition), Open reflux method	5 mg/l
8	BOD	IS: 3025(part-44):1993 (RA 2014) Iodometric	2 mg/l
9	Chlorides	APHA:4500-Cl- B (23 rd Edition), Argentometric method	1.0 mg/l
10	Phenol	APHA: 5530-D (23 rd Edition), Direct photometric Method	0.001 mg/l
11	Sulphates	APHA:4500-E as SO4 2-(23 rd Edition), Turbidimetric method	1 mg/l
12	Total Hardness	APHA: 2340-C (23 rd Edition), EDTA Titrimetric method	2 mg/l
13	Ca++ Hardness	APHA: 3500-Ca-B (23 rd Edition) EDTA Titrimetric method	2 mg/l
14	Mg++ Hardness	APHA: 3500-Mg-B (23 rd Edition), By calculation	2 mg/l
15	Total Alkalinity	APHA: 2320 B (23 rd Edition), Titration method	5 mg/l
16	Nitrate	IS:3025 (part-34)1988 (RA 2014), 3.3 colorimetric method	0.1 mg/l
17	Nitrite	IS:3025 (part-34)1988 (RA 2014)	0.05 mg/l
18	Fluoride	APHA:4500 F-D(23 rd Edition),SPANDS method	0.05 mg/l
19	Sodium	APHA:3500 Na-B (23 rd Edition), Flame emission Photometric method	1 mg/l

S. No	Parameters	Methodology	Minimum Detection Limit
20	Potassium	APHA: 3500 K-B (23 rd Edition) Flame emission Photometric method	1 mg/l
21	Calcium	APHA: 3500-Ca-B (23 rd Edition) EDTA Titrimetric method	2 mg/l
22	Magnesium	APHA: 3500-Mg-B (23 rd Edition), Calculation method	2 mg/l
23	Salinity	APHA: 2520 B (23 rd Edition), Electrical Conductivity method	-
24	Total Nitrogen	APHA: 4500 N Org-B, (23 rd Edition), Macro Kjeldahl method	0.05 mg/l
25	Total Phosphorous	APHA: 4500 P-C (23 rd Edition), Colorimetric method	0.02 mg/l
26	Dissolved Oxygen	APHA: 4500 O-C(23 rd Edition), Iodometric method	0.2 mg/l
27	Ammonical Nitrogen	IS:3025(part-34), 1988 (RA 2014), Distillation & colorimetric	0.05 mg/l
28	SAR	Flamephotometric& EDTA method	-
29	Heavy Metals	-	-
a	Arsenic (as As)	APHA: 3500-As-B (23 rd Edition) Silver diethyldithiocarbamate method/APHA: 3114-B (23 rd Edition) AAS	0.01 mg/l
b	Cadmium (as Cd)	APHA: 3111-B(23 rd Edition) AAS	0.003 mg/l
c	Chromium (as Cr)	APHA: 3500-Cr-B(23 rd Edition), colorimetric method	0.02 mg/l
d	Copper (as Cu)	APHA: 3500-Cu-B (23 rd Edition) Neocuproine method/ APHA: 3111- B (23 rd Edition) AAS	0.03 mg/l
e	Cyanide (as CN)	APHA: 4500 CN- D & E(23 rd Edition)	0.03 mg/l
f	Iron (as Fe)	APHA: 3500-Fe-B (23 rd Edition), Phenanthroline method/APHA: 3111-B(23 rd Edition) AAS	0.05 mg/l
g	Lead (as Pb)	APHA: 3111-B(23 rd Edition) AAS	0.01 mg/l
h	Mercury (as Hg)	IS 3025 (P-48): 1994 (RA 2014))/ APHA: 3112-B (23 rd Edition) Cold vapour AAS method	0.001 mg/l
i	Manganese (as Mn)	APHA: 3500-Mn-B (23 rd Edition) Persulphate method/ APHA: 3111-B(23 rd Edition) AAS	0.02 mg/l
j	Nickel (as Ni)	APHA: 3111-B(23 rd Edition) AAS	0.02 mg/l
k	Zinc (as Zn)	APHA: 3111-B(23 rd Edition) AAS	0.03 mg/
l	Boron (as B)	APHA: 4500 B-C (23 rd Edition), Carmine method	0.05 mg/l
30	Total Coliform	APHA: 9221-B (23 rd Edition), Multiple Tube Fermentation	Absent
31	Fecal Coliform	APHA: 9221-E (23 rd Edition), Multiple Tube Fermentation	Absent

Annexure 17: Method of Analysis of Soil Sample

Sampling Parameters	Sample collection	Analytical Equipment	Methodology	Remarks
Porosity	Manual sample collection using hammer and container tube for collecting undisturbed top soil.	-	IS: 2720 Part 7	Trial pit method for topsoil sample collection; disturbed samples
Water holding capacity		Keen Apparatus	HMSO, UK	
Permeability		-	IS: 2720 Part 17	
Moisture content		Electronic Balance	IS: 2720 Part 2	
Texture		-	IS: 2720 Part 4	
Particle size Distribution		Glass wares	IS: 2720 Part 4	5% Leachate to be made and as per APHA, "Standard Methods" All method numbers are as per APHA "Standard Methods" (21 st edition, 2005)
Cation Exchange Capacity		Centrifuge	IS: 2720 Part 24 (1976)	
SAR		F. Photometer (Na, K) Titration (Ca & Mg)	Calculation	
pH		pH Meter	4500 H+B	
Electrical Conductivity		Conductivity Meter	As per IS 14767 - 2000	
Calcium		Glass wares	3500 Ca B	
Magnesium		Glass Wares	3500 Mg B	
Sodium (Na)		F. Photometer	3500 Na B	
Potassium	F. Photometer	3500 K B		

Annexure 18: Methodology for Ecology and Biodiversity Survey

Secondary / Desktop Literature Review

No site specific (project site) data is available of flora and fauna, however information available on websites of Botanical Survey of India (BSI), ENVIS Centre, Zoological Survey of India (ZSI), District Forest working plan, published literature, research papers have been consulted.

Primary / Field Data Collection

Sampling with standard methods was carried out to understand different floral and faunal components of the project site. The study area is dominated by scrub, shrubs, small and large trees along with agricultural fields and water bodies. The field observation on vegetation was made by surveying at different locations with the help of topographic maps and forest working plan. Birds were noted and identified with the help of binocular and standard field identification guides. Other animals were directly counted from amongst the vegetation, bushes and roadside fields. Other information regarding wild animals has been collected from the local people. Floral and faunal details along with other agriculture information have been collected during the field survey

Threatened Biodiversity Assessment Criteria

Literature review of Indian wild Life Protection Act, 1972, Botanical Survey of India (BSI), Zoological Survey of India (ZSI), Red Data Book (Nayar & Sastry, 1990¹).

¹ Nayar, M. P. & A. R. K. Sastry (Eds.) (1990). Red data book of Indian plants. Vol. 3. Botanical Survey of India, Calcutta.


Annexure 19: Study Methodology for Socio economic Survey

S. No.	Aim / Objective	Area		Methodology
		Study Area	Core Area Only	
1	To Identify and Assess			
1.1.	Social status of society in the focused area. To do this it is required to get reliable information with regards to:			
1.1.1	People residing in the study area along with key demographic figures as per the secondary data (mainly Census of India) giving information on: population, literacy, gender and occupation	√		Secondary data collection and collation from Census of India
1.1.2	Main sub-communities dwelling in the core zone by caste and religion		√	From interviews with PRI representatives
1.1.3	People who are vulnerable classes such as: Below Poverty Line (BPL), Scheduled Castes (SC) and Scheduled Tribes (ST)		√	From interviews with PRI representatives and census
1.2	Economic status of society in the study area. To do this it is required to get reliable information with regards to:			
1.2.1	Occupational pattern from secondary data (mainly Census of India) giving information on: main workers / marginal workers / non-working population	√		Secondary data collection and collation from Census of India
1.2.2	Sources of revenue available to Panchayati Raj Institutions (PRIs)		√	From interviews with PRI representatives
1.2.3	Economic well-being of different classes by gaining an understanding of: prevailing daily wage rates for labor (male / female), status of land holding across different classes / landless households, major crops and farmer support, livestock and animal husbandry		√	From interviews with PRI representatives
1.3	Status of physical and social infrastructure within the core and buffer areas. To do this, it is required to get reliable information with regards to			-
1.3.1	Physical infrastructure - reliable information on availability and adequacy with respect to: educational facilities, road infrastructure, power, water for drinking and irrigation, sanitation, garbage / MSW, banking facilities	√		From interviews with PRI representatives
1.3.2	Social infrastructure – reliable information on availability and adequacy with respect to infrastructure associated with: sports, community events and community self-help / support group		√	From interviews with PRI representatives
1.3.3	Cultural heritage of the area	√		From published literature and site visits
1.4	Effects of			-
1.4.1	Ongoing impacts of other developments in the vicinity of the subject development on people and their lifestyle within the core impact zones, as determined by the EIAC in interaction with FAE (WP / AP&AQ / SHW / RH & NV)		√	From focus group discussions

S. No.	Aim / Objective	Area		Methodology
		Study Area	Core Area Only	
1.4.2	Likely impacts of proposed operations (if a greenfield project) on people and their lifestyle within the core impact zones mentioned above		√	From focus group discussions
2.0	To Determine			-
2.1	Needs of different communities based on the work done in identification and assessment mentioned above		√	From data analysis, internal / client discussions
3.0	To Propose			-
3.1	A Social Management Plan with budgets, timelines and actionable items to achieve the expected outcomes		√	From data analysis, internal / client discussions


Annexure 20: Copy of certified compliance report of Existing EC

FILE NO. J-11/34-2021-IRUGNR



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
**MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE**
एकीकृत क्षेत्रीय कार्यालय, गांधीनगर / **Integrated Regional Office,
Gandhinagar**



सत्यमेव जयते
Ministry of Environment, Forest & Climate Change

ए 407, 409 "अरण्य भवन", सीएच-3 सर्कल के पास, सेक्टर-10 ए, गांधीनगर-382010/ A-407& A-409,
"ARANYA BHAWAN" Near CH-3 Circle, Sector-10A, Gandhinagar-382010

दूरभाष/Tel No: +9179-23255067 Email: iro.gandhinagr-mefcc@gov.in

Dated: 07th January 2022

To
The Additional Director/ Scientist 'E'
Monitoring Cell
Ministry of Environment, Forest and Climate change,
Indira Paryavaran Bhawan, Jorbagh Road, Aliganj,
New Delhi-110003

Subject: Review of Action Taken Report submitted by M/s ArcelorMittal Nippon Steel India Limited - reg.

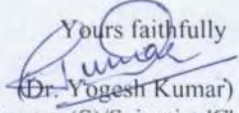
Ref: MoEF's letter No. J-11011/714-A/2008- IA II (I) dated 05/07/2010 and: J 11011/381/2014- IA II (I) dated 09/03/2016.

Madam/Sir,

IRO Bhopal office had submitted a certified EC Compliance report to MoEF&CC, New Delhi vide letter dated 01.04.2021 wherein few partly compliances and non-compliance were reported. PP vide email dated 26.11.2021 submitted an action taken cum compliance report. The action taken report has been examined in light of the reply received from the PP followed by site inspection by IRO MoEF&CC, Gandhinagar. Based on the observations during the site visit on 17th and 18th December 2021 and review of the updated action taken report furnished by the project proponent vide e-mail dated 20.12.2021, the observations of IRO, Gandhinagar is annexed for information and necessary action.

2. This issues with the approval of competent authority.

Encl: As above

Yours faithfully

(Dr. Yogesh Kumar)
Deputy Director (S)/Scientist-'C'
IRO Gandhinagar, MoEFCC

Copy to:

1. The Member Secretary, Industry, Ministry of Environment, Forests and Climate change, Indira Paryavaran Bhawan, Jorbagh Road, Aliganj, New Delhi-110003 for information please.
2. Shri Rajiv Bhatnagar, M/s Arcelor Mittal Nippon Steel India Limited, 27 Km Surat-Hazira road, Hazira, Choryasitaluka, Surat - 394270, Gujarat for information please.

**Ministry of Environment, Forest & Climate Change
Integrated Regional Office, Gandhinagar**

Subject: Addendum to the compliance status reported vide letter dated 01.04.2021 by MoEF&CC, IRO Bhopal particularly with respect to partly complied and not complied conditions.

IRO Bhopal office has submitted a certified EC Compliance report to MoEF&CC, New Delhi vide letter dated 01.04.2021 wherein few partly compliances and non-compliance were reported. PP vide email dated 26.11.2021 submitted an action taken cum compliance report and requested for a site visit to verify the updated status of implementation of partly/non-complied conditions. Accordingly, a site visit to the project was undertaken on 17.12.2021 and 18.12.2021, wherein the action taken report was discussed in light of the reply received from the PP and accordingly, an updated compliance report was requested. Based on the observations during the site visit on 18.12.2021 and review of the updated action taken report furnished by the project proponent vide e-mail dated 20.12.2021, the remarks of MoEF&CC, IRO, Gandhinagar is presented below:

Updated status of Compliance w.r.to partly complied and not complied conditions of Environmental Clearance issued by the MoEF&CC Environment Clearance Reference letter. no. : J-11011/714-A/2008- IA II (I) dated 05/07/2010 and : J-11011/381/2014- IA II (I) dated 09/03/2016.

(Details of project: Replacement of existing Hot Briquetted Iron (BBI)/Direct Reduced Iron (DRI) Modules I and IV with Blast Furnace and associated facilities like Sinter Plant, Coke oven Plant and existing Electric Arc Furnace (EAF) facility with Basic Oxygen Furnace (BOF) Facility in the existing Integrated Steewl Plant of M/s ArcelorMittal Nippon Steel India Limited)

Referred EC Conditions	Remarks of MoEF&CC, Regional office, Bhopal	Remarks of MoEF&CC, IRO, Gandhinagar based on the updated compliance status furnished by the Project Proponent and site visit on 17.12.2021 & 18.12.2021.
Specific Condition No. (vi) – <u>EC(09/03/2016)</u> : The Standards issued by the Ministry vide G.S.R. No. 277(E) dated 31 st March, 2012 regarding iron and steel plant shall be followed.	Point-wise compliance status of G.S.R. No. 277 (E) dated 31 st March, 2012 has not been submitted.	Company is complying with the MoEF&CC standards issued vide G.S.R. No. 277(E) dated 31 st March, 2012. Please find the pointwise compliance status attached as Ann- 1 . Observation: Complied The PP has not installed coke oven plant. The parameters mentioned in GSR No 277 (E) for Sintering plant, rolling mills, arc furnace etc.

		<p>were found in the prescribed limits. The suspended solid in the effluent of blast furnace and fugitive emissions were found to be very close to the prescribed limit. Measures should be taken to prevent its limit to cross beyond the prescribed one. The records were checked at site and it was found that the monitoring of parameters marked in G.S.R. No 277 were carried out by Pollucon Laboratories Pvt Ltd a NABL accredited laboratory.</p> <p>In view of the information furnished by the project proponent and as per the site observations noted above, the stipulated condition is considered as complied.</p>
<p><u>Specific Condition No. (x) – EC(09/03/2016):</u> ‘Zero’ effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.</p> <p><u>General Condition No. (iv) – EC(09/03/2016):</u> Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.</p> <p><u>Specific Condition No. (viii) – EC(05/07/2010):</u> An effort shall be made not to discharge any treated waste water outside the premises and adopt ‘Zero’ effluent discharge. An effort shall be made to recycle and reuse the maximum treated wastewater in the process itself to reduce quantity of water consumption and effluent discharge into Tapi estuary. Only excess treated waste water after meeting the norms of Gujarat Pollution Control Board or as mentioned in E(P) Act, whichever</p>	<p>Mixing of industrial waste water with storm water drains was observed.</p>	<ul style="list-style-type: none"> ▪ As per the prevailing metallurgical industrial practices in 1990s, our plant designed for carrying the Storm water & Industrial water in the common channels. Now separating the channels in the current plant layout is difficult. We have undertaken pipeline job to separate effluent water from storm water. This job is in progress & more than 50% work is completed. The photographs of the laid pipeline and proposed pipeline network drawing are submitted as Ann-2. ▪ As per Environment Clearances granted earlier, AMNS has permission to discharge water to the Tapi Estuary. ▪ As per latest Consent To Operate (CTO) granted by GPCB, Company has permission to discharge the water into Tapi Estuary for HRC Division, Plate Mill Division and Power Division. (Total Permission - 27572 M3/day) and currently around 12,000 m3/day treated effluent is being discharged into Tapi estuary after confirming GPCB discharge standards. ▪ In 2016 EC, Ministry has recommended Zero liquid discharge (ZLD) for the proposed expansion facilities, however due to Financial Implications and NCLT earlier management could not be able to complete the ZLD. Now the new management i.e. AMNSI has taken over ZLD project. Pipe Line work is already started. Expected to complete in phases. First Phase will be

<p>are more stringent, shall be discharged to Tapi Estuary through RCC Pucca Channels.</p> <p><u>General Condition No. (iv) – EC(05/07/2010):</u> Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.</p>		<p>completed by Jan'23 and remaining Phase will be completed by Dec'23.</p> <p>Observation:</p> <p>Not Complied</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">Month</th> <th colspan="3">Generation in M³</th> <th rowspan="2">Treatment / Recycling / Reuse</th> <th rowspan="2">Discharge</th> </tr> <tr> <th>Minimum</th> <th>Maximum</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>June'21</td> <td>23200</td> <td>26125</td> <td>24739</td> <td>12274</td> <td>12465</td> </tr> <tr> <td>July'21</td> <td>23130</td> <td>26700</td> <td>25817</td> <td>12808</td> <td>13008</td> </tr> <tr> <td>Aug'21</td> <td>23120</td> <td>27142</td> <td>26390</td> <td>13093</td> <td>13297</td> </tr> <tr> <td>Sep'21</td> <td>23350</td> <td>26253</td> <td>24095</td> <td>11954</td> <td>12141</td> </tr> <tr> <td>Oct'21</td> <td>23256</td> <td>25954</td> <td>24978</td> <td>12392</td> <td>12586</td> </tr> <tr> <td>Nov'21</td> <td>24505</td> <td>27358</td> <td>26397</td> <td>13096</td> <td>13300</td> </tr> </tbody> </table> <p>The treated waste water was used in various system making process within the unit. But a huge volume of water from the Blast Furnace unit were discharged into a drain which was going out of the premises. The water was accumulated inside the premises of blast furnace unit and the raw material handling in the unit was also very poor.</p> <p>The units were draining water outside the premises at three locations for which they have taken the consent from GPCB. The water quality monitoring station was installed</p>	Month	Generation in M ³			Treatment / Recycling / Reuse	Discharge	Minimum	Maximum	Average	June'21	23200	26125	24739	12274	12465	July'21	23130	26700	25817	12808	13008	Aug'21	23120	27142	26390	13093	13297	Sep'21	23350	26253	24095	11954	12141	Oct'21	23256	25954	24978	12392	12586	Nov'21	24505	27358	26397	13096	13300
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		<p>at the outlet. The results were within the prescribed limits.</p> <p>The unit has taken an initiative to achieve the target of ZLD and in these directions they have started the construction for separating storm water from the industrial effluent. The Pipe Line work was seen during site inspection. It was informed that they are planning to execute the entire process in phases and the First Phase will most likely be completed by January 2023 and remaining Phase will be completed by December 2023.</p> <p>At present it is directed to make necessary arrangement to check the outfall of water from the blast furnace unit. The action taken should be intimated within 15 days to the regional office Gandhinagar.</p> <p>In view of the above and as per site observation the unit are in progress stage to achieve the mandate of ZLD. Although in the present scenario the condition is considered as not complied.</p>
Referred EC Conditions	Remarks of MoEF&CC, Regional office	Compliance Status & Action Plan as on 18.12.2021
<p><u>Specific Condition No. (xi) – EC(09/03/2016):</u> Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the E(P) Act whichever are more stringent.</p> <p><u>Standard Condition No. (xi) – EC(05/07/2010):</u> Ground water monitoring around the solid waste disposal site / secured landfill (SLF) shall be carried out regularly and report submitted to the Ministry's</p>	<p>Total residual chlorine from STP (600 m3 and 400 m3) and total dissolved solids exceeded the norms.</p>	<p>For STPs, Residual Chlorine should be maintained above 0.5 ppm to ensure the disinfection and GPCB norms for STP is also insisting for minimum 0.5 ppm of Residual Chlorine.</p> <p>NABL approved & MoEF&CC recognized third Party agency is collecting and analyzing the STP samples regularly as per the Guidelines and the results are found within the limits and the copy of the STP samples analysis report is submitted as Ann-2 for your kind reference.</p> <p>Groundwater monitoring is being carried out regularly and reports are submitted along with EC compliance report.</p> <p>Complied</p> <p>The effluents were monitored at three outlets along with heavy metal monitoring. The</p>

<p>Regional Office at Bhopal, CPCB and GPCB.</p>		<p>monitoring for ground water were carried out by NABL/MoEFCC accredited laboratory at slag dumping area behind steel melting plant 1 on 27th April 2021 and the results were found within the prescribed limits. It is directed to submit the ground water monitoring data around secure land fill area.</p> <p>For STPs, Residual Chlorine was maintained as per GPCB norms of minimum 0.5. The monitoring reports submitted by third party (M/s. Pollucon Laboratories Pvt. Ltd.) approved by NABL & Recognized by MoEF&CC, New Delhi was verified and it was found that the parameters were within the prescribed limits. Although the TDS was found be very close to the maximum prescribed limit.</p> <p>In view of the above, the condition is considered as complied.</p>
<p><u>Specific Condition No. (xii) – EC(09/03/2016) & Specific Condition No. (x) – EC(05/07/2010):</u></p> <p>Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid / hazardous waste shall be submitted to the Ministry’s Regional Office, SPCB and CPCB.</p>	<p>ETP Sludge was scattered near the ETP & also huge quantity of sludge was stored in open</p>	<p>All the Solid waste & Hazardous waste’s Handling, Storage, Utilization and disposal are being done in environment friendly manner as per the statutory guidelines. ETP sludge is generated in dry condition. Dedicated storage area has been developed to store & contain ETP Sludge properly. ETP sludge is being recycled maximum in our Sinter plant operations and remaining is being disposed to GPCB approved TSDF sites. ETP sludge storage area photograph submitted for your kind reference as Ann-4. Also, we are proposed to lay the paved approach roads for the ETP storage area and develop the Greenbelt around the storage area by Apr’2022.</p> <p>Complied</p> <p>No such sludge was observed near the ETP plant. It was disposed at TSDF site. A drain was trenched at the ETP site where water was seen accumulated, which needs to be filled in a time bound manner and the report should be submitted to the IRO Gandhinagar. The unit has provided two sludge storage area which</p>

		<p>were covered by the shed. There needs an improvement in the design of sludge storage area so that rainwater could not mix with the solid waste. The garland drain should be constructed all around to prevent the mixing along with a U shape ramp for loading and unloading of sludge. The area has the potential to develop a green belt all around. The roads around storage area should be made pucca in a time bound manner to prevent the fugitive emissions.</p> <p>In view of the above, the condition is considered as complied.</p>
<p><u>Specific Condition No. (xiii) – EC(09/03/2016):</u> A time bound action plan shall be submitted to reduce solid waste generated due to the project related activities, its proper utilization and disposal.</p>	<p>Time bound action plan with reference to solid waste used for backfilling has not been submitted.</p>	<p>Most of the material is recycled / reused inside the plant. Time bound action plan for Solid Waste Utilization is prepared and submitted in the Modification Project EIA report and the same is submitted as Ann-5 for your consideration please.</p> <p>Complied</p> <p>As per the documents provided at site it can be concluded that the unit were utilizing 80% of solid waste in house whereas they are exploring the possibilities with international technology supplier/CSIR labs to utilize 100% waste.</p> <p>The slag storage area was seen and it was informed that they were in negotiation with NHAI to use the slag in road construction. They are also in negotiation in RDSO for replacing ballest with steel slag.</p> <p>In view of the above the condition is considered as complied.</p>
<p><u>Specific Condition No. (xiv) – EC(09/03/2016):</u> Proper utilization of fly ash shall be ensured as per Fly ash Notification, 1999 and Subsequent amendment in 2003 and 2009. All the fly ash shall be provided to cement and brick manufactures for further utilization and Memorandum of Understanding shall be submitted to the Ministry’s Regional Office at Chennai.</p>	<p>Fly ash utilization was not ensured stating that there is no generation of fly ash</p>	<p>AMNS India is not generating Fly ash and hence requesting for removing this condition.</p> <p>Complied</p> <p>No generation of fly ash were seen during site inspection. They don’t have coal based power plant.</p>

<p><u>Specific Condition No. (xv) – EC(09/03/2016):</u> A Risk and Disaster Management Plan shall be prepared and a copy submitted to the Ministry’s Regional Office, SPCB and CPCB within 3 months of issue of environment clearance letter.</p> <p><u>Specific Condition No. (xvii) – EC(09/03/2016):</u> At least 5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry’s Regional Office. Implementation of such program shall be ensured by constituting a Committee comprising of the proponent, representatives of village panchayat and District Administration. Action taken report in this regard shall be submitted to the Ministry’s Regional Office.</p> <p><u>Specific Condition No. (xix) – EC(09/03/2016):</u> The Company shall submit within three months their policy towards Corporate Environment Responsibility which shall inter-alia address (i) Standard operating process/ procedure to being into focus any infringement / deviation / violation of environmental or forest norms/ conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non-compliance/ violation environmental norms to the Board of Directors of the</p>	<p>Risk and Disaster Management plan, details of expenditure incurred and funds earmarked for Enterprise social commitment, details of policy towards CER, compliance status of CC&A and EIA/EMP report has not been submitted.</p>	<p>Risk and Disaster Management Plan submitted to MoEF&CC / GPCB / CPCB through EC Compliance report dated 31st May, 2021 and copy of letter for your records as Ann-6.</p> <p>We have undertaken community development activities for nearby villages. Till 2019, the unit was under NCLT process and no major CSR activities was carried out. Last year CSR Activity details and action plan for next 05 years is submitted as Ann-7.</p> <p>CCA Compliance Report already submitted in the last compliance report of Oct’20 to Mar’21 dated 31st May, 2021</p> <p>Our new management taken over the unit recently and we are framing the website in consultation with the parent company. After framing the new website, it will be uploaded as per the requirement. We will be getting system ready by Jan-22.</p> <p>Partly Complied</p> <p>The unit has submitted the risk and disaster management plan. CSR activities were undertaken in and around the nearby villages of proposed expansion project. An amount of Rs. 16 crores have been dedicated for CSR activities for five years and the company has to identify stakeholders for the planning and implementation of CSR activities. Proposed activities with its estimated cost for benefitting the society at large and the local rural community in particular for a period of 5 years was provided the PP.</p> <p>The CCA compliance report was already submitted to IRO Bhopal. During the site visit, it was noticed that the project proponent is complying with all the environmental protection measures like operation of ETP, air pollution control devices, fume extraction system etc., the details of which were discussed in the certified compliance report.</p>
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<p>company and/ or stakeholders or shareholders.</p> <p><u>General Condition No. (i) – EC(09/03/2016):</u> The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB) and the State Government.</p> <p><u>General Condition No. (viii) – EC(09/03/2016):</u> The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.</p> <p><u>General Condition No. (vi) – EC(05/07/2010):</u> The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.</p> <p><u>General Condition No. (ix) – EC(05/07/2010):</u> The project proponent shall upload the status of compliance of the stipulated environment clearance condition, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF&CC at Bhopal. The respective Zonal Office of CPCB and the SPCB. The</p>		<p>The unit has upgraded the Fume Extraction System of to reduce the gas emissions.</p> <p>The unit has taken proactive steps towards compliance of conditions stipulated by the Ministry. Due to change in the ownership followed by a COVID setback the pace of implementation of the conditions were slow. It was promised by the PP to achieve the compliance in a planned and time bound manner.</p>
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<p>criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>		
<p><u>General Condition No. (x) – EC(09/03/2016):</u> A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The Clearance letter shall also be put on the website of the company by the proponent.</p> <p><u>General Condition No. (viii) – EC(05/07/2010):</u> A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila parishad / Municipal Corporation, Urban Local body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.</p>	<p>Documentary proof of the information that industry is falling under Hazira notified Area has not been furnished.</p>	<p>Our Integrated Steel complex is located in the Hazira Notified area from the inception of our operation and the Hazira Notified area map highlighting our boundary is submitted as Ann – 8</p> <p>Complied</p> <p>The map shown during site inspection affirms that the unit falls under Hazira Notified area. Whereas an area of approx. 38ha falls outside the notified area.</p>
<p><u>General Condition No. (xi) – EC (09/03/2016):</u> The project proponent shall upload the status of compliance of the stipulated environment clearance condition, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEFCC at Bhopal. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack</p>	<p>Compliance status of EC conditions and monitored data has not been uploaded on company’s website.</p>	<p>Our new management taken over the unit recently and we are framing the website in consultation with the parent company. After framing the new website, it will be uploaded as per the requirement. We will be getting system ready by Jan-22.</p> <p>Not complied</p> <p>The unit is in process of making the website. It was informed that it will get ready by January 2021 and after that all the documents will be uploaded.</p>

<p>emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>		
<p><u>Specific Condition No. (vii) – EC (05/07/2010):</u> Total water requirement from Singanpore Weir shall not exceed 1, 20, 711 m³ / day. No ground water shall be used. Separate drains for domestic, process, strom water shall be provided in consultation with GPCB. All the other effluents shall be treated in plant – wise independent waste water treatment system. BF – GCP and coal washery water shall be treated in thickener and used in the pig casting machine. Acidic and alkaline effluent from DM water plant shall be neutralized and reused in the plant through ash pond. Oil traps shall be provided to remove oil and grease. All the treated waste water from process shall be treated and recycled and reused for ash handling, dust suppression and green belt development. The domestic wastewater shall be treated in STP and treated wastewater after conforming to the prescribed standards shall be used for green belt development.</p>	<p>Month-wise daily maximum and minimum water usage data has not been submitted</p>	<p>Month wise Daily Maximum & Minimum water usage data is being submitted along with Half yearly EC compliance report from 2021 and the month wise max & min water usage data for 2021 is submitted as Ann- 9.</p> <p>Complied</p> <p>The unit has provided the monthly data on water uses. It was found that the uses were within the prescribed limits.</p>
<p><u>Specific Condition No. (vii) – EC (05/07/2010):</u> Total water requirement from Singanpore Weir shall not exceed 1, 20, 711 m³ / day. No ground water shall be used. Separate drains for domestic, process, strom water shall be provided in consultation with GPCB. All the other effluents shall be treated in plant – wise independent waste water treatment system. BF – GCP and coal washery water shall be treated in thickener and used in the pig casting machine. Acidic and alkaline effluent from</p>	<p>Water consumption data per ton of steel as prescribed by standard has not been submitted.</p>	<p>Specific water consumption details are being maintained and Water consumption details for FY 2020-21 is 3.78 m³/TCS.</p> <p>Complied</p> <p>The unit has provided the water consumption/ton of steel. It varied from 3.68 m³/TCS in FY 2019-20 to 3.84 m³/TCS in FY 3.68 m³/TCS.</p>

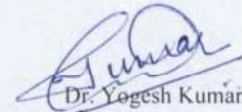
<p>DM water plant shall be neutralized and reused in the plant through ash pond. Oil traps shall be provided to remove oil and grease. All the treated waste water from process shall be treated and recycled and reused for ash handling, dust suppression and green belt development. The domestic wastewater shall be treated in STP and treated wastewater after conforming to the prescribed standards shall be used for green belt development.</p>		
<p><u>Specific Condition No. (xi) – EC (05/07/2010):</u> As proposed, green belt for adequate width and density shall be provided in at least 33 % of plant area and along the boundary wall of the site as per the CPCB guidelines.</p>	<p>Details of total area utilized for greenbelt development has not been submitted.</p>	<p>Current Green belt area is around 22%. Updated Layout of the Greenbelt prepared with detailed action plan for meeting the 33% target by Dec'2024.</p> <p>Action plan & Layout enclosed herewith as Ann-10.</p> <p>Complied</p> <p>The unit has submitted the green belt development plan. The layout plan was seen at the site. At present 136.05 ha (20.31%) of plant area is under green belt and the unit is planning to add another 83 ha (12.39%) under green belt. The total green belt will be approx. 32.69% in the plant area.</p>
<p><u>Specific Condition No. (xiv) – EC (05/07/2010):</u> The company shall comply with all the recommendations / action points made in the Charter on Corporate Responsibility for Environment Protection (CREPs) and progress report shall be submitted to MoEF/CPCB.</p>	<p>Point-wise compliance status of Corporate Responsibility for Environmental Protection (CREPs) has not been submitted.</p>	<p>Please find enclosed herewith the point wise compliance on Corporate Responsibility for Environment Protection (CREPs) as Ann-11.</p> <p>Complied</p> <p>The unit has submitted the point wise compliance of CREPs. The measures were highlighted to reduce 100% fugitive emissions by installing secondary de-dusting facilities.</p>
<p><u>General Condition No. (xii) – EC (05/07/2010):</u> The project Proponent shall inform the public that the project has been</p>	<p>Details of newspaper advertisement of EC granted, financial closure and final approval of</p>	<p>Basically, this 2010 EC is an administrative one for merging of earlier separate ECs obtained for our two units in 2007. There was no change in production as per this 2010 EC.</p>

<p>accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at website of the Ministry of Environment, Forests and Climate Change (MoEF&CC) at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspaper that are widely circulated in the region of which one should be in vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office at Bhopal.</p> <p><u>General Condition No. (xiii) – EC (05/07/2010):</u> The Project Authorities 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 and the date of commencing the land development work.</p>	<p>project, date of commencing land development work has not been submitted.</p>	<p>Paper advertisements for the 2007 ECs only were given by the earlier management and the copy the same is submitted as Ann-12. We sincerely apologized for this pending action. We will assure to comply this point for all the ECs hereafter.</p> <p>Partly Complied</p> <p>The unit has published the public notice in two newspapers on 14th March 2016. The PP has apologized for the action taken in the past and ensured that no such lapse will occur in future correspondence.</p>
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SUMMARY NOTE:

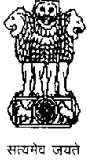
i. Updated status of implementation of Conditions:

Compliance status of partly complied/not complied reflected in the Certified Compliance report dated 01.04.2021	Updated Compliance status as on 18.12.2021
Partly Complied- 13 (J-11011/381/2014- IA II (I) dated 09/03/2016) and 12 (J-11011/714-A/2008- IA II (I) dated 05/07/2010)	Complied – 10 including both ECs Partly Complied – 2 including both ECs
Not complied-2 (J-11011/381/2014- IA II (I) dated 09/03/2016) and 2 (J-11011/714-A/2008- IA II (I) dated 05/07/2010)	Not Complied – 2 including both ECs



Dr. Yogesh Kumar
Deputy Director (S)/Scientist 'C'
MoEFCC, IRO, Gandhinagar.

डॉ. योगेश कुमार/Dr. Yogesh Kumar
वैज्ञानिक 'सी'/Scientist 'C'
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय,
Ministry of Environment, Forest & Climate Change,
भारत सरकार /Govt. of India
ए.शे.का., गांधीनगर(गुजरात)/IRO,Gandhinagar(Gujarat)



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST &
CLIMATE CHANGE

SPEED POST

एकीकृत क्षेत्रीय कार्यालय,
Integrated Regional Office,
"केन्द्रीय पर्यावरण भवन"
"Kendriya Paryavaran Bhavan"
लिंक रोड नं०-3/Link Road No. 3
ई-5, रविशंकर नगर/ E-5, Ravishankar Nagar,
दूरभाष /Phone: 0755-2426611, 2466525,
फैक्स /Fax: 0755-2463102
भोपाल (म०प्र०)/Bhopal (M.P.)-462016
अणुडाक /e-mail: rowz.bpl-mef@nic.in

File No. : 5-52/2009(Env)/672

Dated: 01/06/2021

To,

The Joint Secretary, (IA)
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan,
Jorbagh Road, Aliganj,
New Delhi - 110003

Sub: Environment Clearance for Integrated Steel Plant at Hazira, District Surat,
Gujarat by M/s Arcelor Mittal Nippon Steel India Limited (Formerly Essar Steel
India Limited).

Ref: 1. Ministry's Letter No. J-11011/714-A/2008-IA II (I) dated 05.07.2010
2. Ministry's Letter No. J-11011/381/2014-IA II (I) dated 09.03.2016

महोदय,

मंत्रालय के उपरोक्त संदर्भित पत्रों के संदर्भ में उक्त परियोजनाओं को पर्यावरणीय दृष्टिकोण से
अनुमति देते समय अनुबद्ध शर्तों के अनुपालन एवं certification of compliance के निर्देशानुसार,
पर्यावरणीय अनुमति दिनांक 05.07.2010 व 09.03.2016 का अनुवीक्षण प्रतिवेदन (मॉनिटरिंग रिपोर्ट) एतद्
द्वारा संलग्न कर प्रेषित है। यह सक्षम प्राधिकारी द्वारा अनुमोदित है।

भवदीय

(विश्व बन्धु भीणा)
वैज्ञानिक 'सी'

संलग्न: उपरोक्तानुसार

Copy To:

1. Member Secretary, Industry, Ministry of Environment, Forest and Climate
Change, Indira Paryavaran Bhawan, Jorbagh Road, Aliganj, New Delhi-
110003 for kind information please.
2. The Director, Monitoring Cell, Ministry of Environment, Forest and Climate
Change, Indira Paryavaran Bhawan, Jorbagh Road, Aliganj, New Delhi-
110003 for kind information please.
3. Shri Rajiv Bhatnagar, M/s. Arcelor Mittal Nippon Steel India Limited, 27
km, Surat -Hazira road, Hazira, Choryasitaluka, Surat District. - 394270,
Gujarat for kind information please.

(विश्व बन्धु भीणा)
वैज्ञानिक 'सी'

Monitoring the Implementation of Environmental safeguards
Ministry of Environment, Forest & Climate Change
Integrated Regional office Gandhi Nagar
Monitoring Report

PART-I
DATA SHEET

Sr. No.	Particulars	Details
1.	Project Type :River Valley/Mining/ Industry/ Thermal/Nuclear/Other(Specify)	Industry
2.	Name of the Project	Replacement of existing Hot Briquetted Iron (HBI)/Direct Reduced Iron (DRI) Modules I to IV with Blast Furnace and associated facilities like Sinter Plant, Coke Oven Plant and existing Electric Arc Furnace (EAF) facility with Basic Oxygen Furnace (BOF) facility in the existing Integrated Steel Plant of M/s. ArcelorMittal Nippon Steel India Limited (Formerly Essar Steel India Limited)
3.	Clearance letter (s)/OM No. and date	F. No. J-11011/381/2014-IA II (I) and dated 9th March, 2016.
4.	Location a) District b) State c) Location/Latitude/Longitude	a) Surat b) Gujarat c) Location Latitude.: 21° 6'43.92" N, Longitude.: 72°38'46.66 "E
5.	Address for correspondence a.) Address of concerned Chief Engineer (With Pin Code & Mob. No./Telephone/Telefax/E-mail) b) Address of concerned Project Engineer (With Pin Code & Mob. No./ Telephone/Telefax/ E-mail)	Rajiv Bhatnagar ArcelorMittal Nippon Steel India Limited, 27 km, Surat -Hazira road, Hazira, Choryasi taluka, Surat District. - 394270 L.No. +912616683241 M. No. 9879100063 E: Rajiv.Bhatnagar@amns.in
6.	Salient Features a.) Of the project b) Of the Environment management Plan	Already mentioned in detailed in Environment Impact Assessment (EIA).
7.	Production details during compliance period and (or) during the previous financial year.	Please find enclosed as per Annexure-1
8.	Break up of the Project Area a) Submerged area : forest & Non Forest b) Others	Project activity will be carried out within existing premises. No additional land area will be required.

9.	<p>Break up of the project affected population with enumeration of those losing house/dwelling unit only agricultural land, both dwelling unit & agricultural land & land less labours/artisan</p> <p>a) SC,ST, Adivasi b) Others</p> <p>(Pl Indicate whether these figures are based on any scientific and systematic survey carried out give details and year of survey)</p>	The project did not involve displacement of any population.
10.	<p>Financial Detail</p> <p>a) Project cost as originally revised estimates and the year of price reference</p> <p>b) allocation made for environment management plan with item wise and year wise break up</p> <p>c) Benefit cost ratio/internal rate of return and the year of assessment (if applicable)</p> <p>d) Whether above includes the cost of environment management as shown in the above</p> <p>e) Actual expenditure incurred on the project so far</p> <p>f) Actual expenditure incurred on the Environment Management Plan so far</p>	NA as project has not taken off.
11.	<p>Forest Land Requirement</p> <p>a) The status of approval for diversion of forest land for non forestry use</p> <p>b) The status of cleaning felling</p> <p>c) The status of compensatory afforestation, if any</p> <p>d) Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far</p>	Forest land will not be acquired
12.	The status of clear felling in non forest areas (such as submergence area of reservoir, approach roads) if any with quantitative information	-
13.	<p>Status of Construction</p> <p>a) Date of commencement (Actual and/or planned)</p>	Construction has not yet started.

	b) Date of completion (Actual and/or planned)									
14.	Reasons for the delay if the project is yet to start	After initial feasibility studies etc. the project could not take off due to paucity of funds. Later the company went into NCLT process and then ownership changed. Project is under reconsideration.								
15.	<p>Details of Site visit</p> <p>a) The dates on which the project was monitored by the MoEF & CC, Regional Office on previous occasions. (if applicable)</p> <p>b) Date of site visit for this monitoring report</p>	27th & 28th Nov, 2020.								
16.	<p>Details of correspondence with project authorities for obtaining action plans/information on status of compliance to safeguards other than the routine letters for logistic support for site visit</p> <p>(The first monitoring report may contain the details of all the letters issued so far but the later reports may cover only the letters issued subsequently)</p> <table border="1"> <thead> <tr> <th>Date RO</th> <th>Letter from MoEF&CC Bhopal</th> <th>Date</th> <th>Letter from PP</th> </tr> </thead> <tbody> <tr> <td>04.12.2020</td> <td>MoEF&CC Bhopal's email dated 03.12.2020 regarding additional information</td> <td>06.12.2020:</td> <td>The PP vide email dated 06.12.2020 submitted the additional information.</td> </tr> </tbody> </table>	Date RO	Letter from MoEF&CC Bhopal	Date	Letter from PP	04.12.2020	MoEF&CC Bhopal's email dated 03.12.2020 regarding additional information	06.12.2020:	The PP vide email dated 06.12.2020 submitted the additional information.	
Date RO	Letter from MoEF&CC Bhopal	Date	Letter from PP							
04.12.2020	MoEF&CC Bhopal's email dated 03.12.2020 regarding additional information	06.12.2020:	The PP vide email dated 06.12.2020 submitted the additional information.							


Part - II & III



DESCRIPTIVE REPORT ON STATUS OF COMPLIANCE TO CONDITIONS OF ENVIRONMENT CLEARANCE AND ENVIRONMENT MANAGEMENT

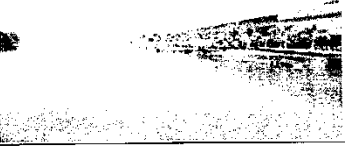

Details of project: Environment Clearance for Replacement of existing Hot Briquetted Iron (HBI)/ Direct Reduced Iron (DRI) Modules I to IV with Blast Furnace and associated facilities like Sinter plant, Coke oven plant and Existing Arc Furnace (EAF) facility with Basic Oxygen Furnace (BOF) facility in the existing integrated steel plant of M/s Arcelor Mittal Nippon Steel India Limited (Formerly Essar Steel India Limited).

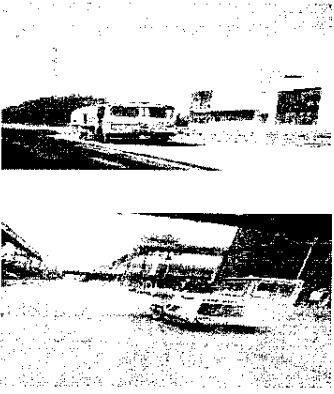
EC No: F.No. J-11011/381/2014-IA II (I) dated 9th March, 2016.
(Compliance Status for the period April 2020 to September 2020)

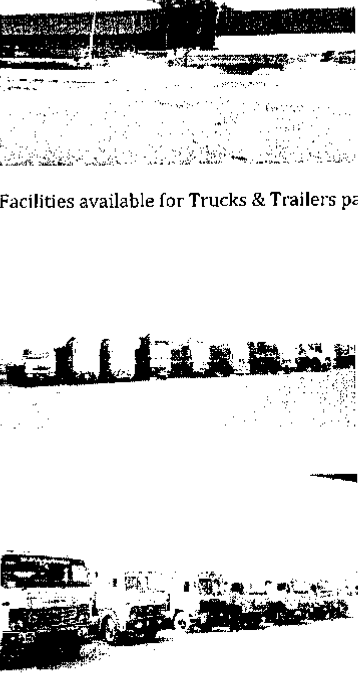
Sr. No.	EC Condition	Status of Compliance as submitted by the PP	Remarks of MoEF&CC, Regional office based on the compliance status furnished by the Project Proponent and the on-field observations of the site visit
A. SPECIFIC CONDITIONS			
(i)	The Project proponent shall install 24x7 air monitoring devices to monitor air emissions, as provided by the CPCB and submit report to ministry and its regional office.	Installed Four nos. of Continuous (24*7) Ambient Air Quality Monitoring Stations (CAAQMS). Monthly Manual monitoring is being done for Ambient by Third Party (M/s. Pollucon Laboratories Pvt. Ltd.) approved by NABL & Recognized by MoEF&CC, New Delhi under Sec. 12 of Environmental Protection Act-1986 and reports are being sent to GPCB & CPCB & MoEF&CC regularly. Third party Ambient Monitoring Reports Results for Apr'20 - Sep'20 along with Third Party Monitoring Report for Sep'20 enclosed herewith as Annexure - 1.	Observation during the site visit: During the site visit, the PP informed that four nos. of Continuous (24*7) Ambient Air Quality Monitoring Stations (CAAQMS) have been installed. The third party ambient air monitoring reports as monitored by NABL accredited laboratory, M/s. Pollucon Laboratories Pvt. Ltd., were

			furnished by the PP. It is noted that AAQ parameters are within the stipulated norms during the compliance period. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied. COMPLIED
(ii)	Continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), bag house, bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm ³ and installing energy efficient technology.	Continuous stack monitoring facilities for 72 stacks have been provided with effective air pollution control devices such as Dedusting systems, Electrostatic Precipitator (ESP), Bag House & Bag Filters, Hydro cyclone, Venturi Scrubber. <u>ESP Photograph (Sinter Plant):</u>  <u>Bag House Photograph: (Bag Filters installed at SMP1, SMP2, Lime Plant 1, Lime Plant 2, Corex, Blast Furnace, HBI, Plate Mill, Pipe Mill)</u>	Observation during the site visit: During the visit, the PP informed that continuous stack monitoring facilities for 72 stacks have been provided with effective air pollution control devices. The third party stack emission monitoring reports/data as monitored by NABL accredited laboratory, M/s. Pollucon Laboratories Pvt. Ltd., were furnished by the PP. The reports were checked randomly and it was noted that the parameters were within the stipulated norms during the compliance period. In view of the information

		 <p>Monthly manual monitoring is being done for all Stacks by Third Party (M/s. Pollucon Laboratories Pvt. Ltd.) approved by NABL & Recognized by MoEF&CC, New Delhi under Sec. 12 of Environmental Protection Act-1986 and reports are being sent to GPCB & CPCB & MoEF&CC regularly. Third party Stack Monitoring Reports Results for Apr'20 - Sep'20 along with Third Party Monitoring Report for Sep'20 enclosed herewith as Annexure - 2.</p>	<p>furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied.</p> <p>COMPLIED</p>
(iii)	<p>Efforts shall further be made to use maximum water from the rain water harvesting sources. Use of air cooled condensers shall be explored and closed circuit cooling system shall be provided to reduce water consumption and water requirement shall be modified accordingly. All the effluent should be treated and used for ash handling, dust suppression and green belt development.</p>	<p>We are having 6 Nos. of water reservoirs for rain water harvesting. Total 8,10,081 m³ rain water harvested for the period Apr'20 - Sep'20. We are using air cooled condensers and closed circuit cooling system. Using treated effluent water for dust suppression and green belt development.</p> <p><u>Rain Water Harvesting Reservoirs:</u></p> 	<p>Observation during the site visit: The visit to water reservoir was undertaken. The PP informed that total 8,10,081 m³ rain water harvested for the period Apr'20 - Sep'20. The treated effluent is being used for dust suppression and green belt development.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied.</p> <p>COMPLIED</p>

		 							
(iv)	<p>All the coal fines and char shall be utilized within the plant and no char shall be used for briquette making or disposed off anywhere else. Scrap shall be used in Steel melting shop (SMS) and SMS slag and kiln accretions shall be properly utilized. All the other solid waste including broken refractory mass shall be</p>	<p>Coal fines is being utilized as a raw material in Blast Furnace & Power Plant. Scrap is being used in Steel melting shop (SMS) and SMS slag and kiln accretions has been utilized properly in Environment friendly manner.</p> <p><u>Other Materials Utilization Table:</u></p> <table border="1"> <thead> <tr> <th>Materials</th> <th>Utilization (MT) Apr'20 - Sep'20</th> </tr> </thead> <tbody> <tr> <td>Coal Fines</td> <td>4,67,928</td> </tr> <tr> <td>Scrap</td> <td>55,712</td> </tr> </tbody> </table>	Materials	Utilization (MT) Apr'20 - Sep'20	Coal Fines	4,67,928	Scrap	55,712	<p>Observation during the site visit: The PP agreed to comply with the stipulated condition.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as agreed to comply.</p> <p>AGREED TO COMPLY</p>
Materials	Utilization (MT) Apr'20 - Sep'20								
Coal Fines	4,67,928								
Scrap	55,712								

	properly disposed of in environment-friendly manner.	SMS Slag 5,12,626	
(v)	All internal roads shall be black topped. The roads shall be regularly cleaned with mechanical sweepers. A 3-tier avenue plantation using native species shall be developed along the roads. Facilities for parking of trucks carrying raw coal from the linked coal mines shall be created within the Unit.	<p>All the internal plant roads have been Black topped / Concrete & cleaning of the roads are being done regularly through mechanical sweepers.</p> 	<p>Observation during the site visit: The internal roads are provided either with black top or by concrete. The PP informed that cleaning of the roads are being done regularly through mechanical sweepers.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied.</p> <p>COMPLIED</p>

		 <p>Facilities available for Trucks & Trailers parking.</p>	
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(vi)	The Standards issued by the Ministry vide G.S.R. No. 277(E) dated 31st March, 2012 regarding iron and steel plant shall be followed.	The Standards issued by the Ministry vide G.S.R. No. 277(E) dated 31st March, 2012 regarding iron and steel plant is being followed.	<p>Observation during the site visit: The PP stated that the standards issued by the Ministry vide G.S.R. No. 277(E) dated 31st March, 2012 regarding iron and steel plant is being followed.</p> <p>However, the PP should submit the point-wise compliance status of G.S.R. No. 277(E) dated 31st March, 2012.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied.</p> <p>PARTLY COMPLIED</p>
(vii)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No 826 (E) dated 16th November, 2009 shall be followed.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No 826 (E) dated 16th November, 2009 is being followed.	<p>Observation during the site visit: The PP stated that National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No 826 (E) dated 16th November, 2009 is being followed. During the site visit, the PP informed that Four nos. of Continuous (24*7) Ambient Air Quality Monitoring Stations (CAAQMS) have been installed. The third party</p>

			<p>ambient air monitoring reports as monitored by NABL accredited laboratory, M/s. Pollucon Laboratories Pvt. Ltd., were furnished by the PP. It is noted that AAQ parameters are within the stipulated norms during the compliance period.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied.</p> <p>COMPLIED</p>
(viii)	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 and regularly monitored. Guidelines/ Code of Practice issued by the CPCB shall be followed.	Monthly manual monitoring is being done for fugitive emissions by Third Party (M/s. Pollucon Laboratories Pvt. Ltd.) approved by NABL & Recognized by MoEF&CC, New Delhi under Sec. 12 of Environmental Protection Act-1986 and reports are being sent to GPCB & CPCB & MoEF&CC.	<p>Observation during the site visit: The PP informed that monthly manual monitoring is being done for fugitive emissions by Third Party (M/s. Pollucon Laboratories Pvt. Ltd.) approved by NABL & Recognized by MoEF&CC, New Delhi.</p> <p>The monitoring data furnished</p>

FUGITIVE OR WORKZONE MONITORING							
PARTICULATE MATTER (PM10) - Monthly Average							
LOCATION	Apr' 20	May' 20	Jun' 20	Jul' 20	Aug' 20	Sep' 20	CPCE Standards
EAF HV	**	**	1610	1730	1540	1420	4000
Blast Furnace	**	**	1826	2150	2470	2512	3000
Conarc	**	**	2102	1978	2154	2086	3000
Corex 1	**	**	1825	1890	1419	1920	3000
Corex 2	**	**	1768	1060	1150	1420	3000
Sinter Plant	**	**	684	1052	2680	2710	3000
LP- A	**	**	2315	2140	2880	2180	4000
LP- B	**	**	1662	1554	1681	1752	3000

Note: A/ Results are in ug/m³ **Not Monitor Due to Lockdown

Guidelines/ Code of Practice issued by the CPCB is being followed.
Third party Fugitive Monitoring Report for Sep'20 enclosed herewith as Annexure - 3.

by the PP shows that parameter are within the stipulated norms during the compliance period.

In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied.

COMPLIED

(ix) Vehicular Pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.

Dust emission control measures are in place for controlling pollution happened due to Vehicle Movements & loading and unloading of the raw material and finished product.


1) Regular cleaning of dust on roads through mechanical sweepers.



Observation during the site visit: During visit, the PP informed that various dust control measures are in place. The PP stated that regular cleaning of dust is being done on roads through mechanical sweepers. Water sprinkling systems are installed at various locations for controlling of dust emission.

In view of the information furnished by PP and as per the

2) Water sprinkling systems are installed at various locations for controlling of dust emission.



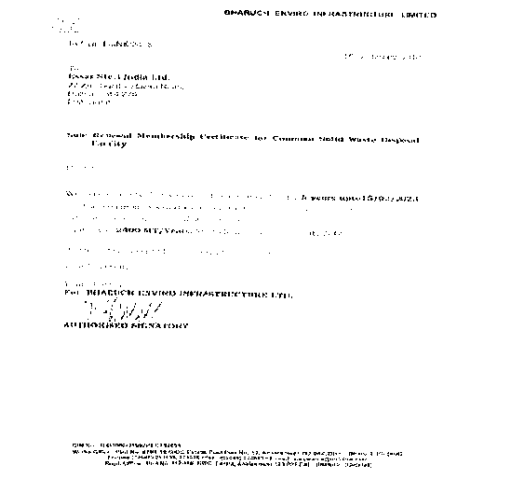
3) Dry fog systems are installed at various locations for controlling of dust emission.

site observations noted above, the stipulated condition is considered as complied.


COMPLIED


(x)	'Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.	As per EC conditions, we are authorized to discharge treated effluents through three authorized outlets at Tapi Estuary. However, we are trying for maximum usage of Treated effluents by Reusing & Recycling through gardening and plantation for attaining Zero Effluent discharge.	<p>Observation during the site visit: During the visit, it was observed that at some locations the industrial waste water was got mixed with storm water drains.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as not complied.</p> <p>NOT COMPLIED</p>
(xi)	Regular monitoring of Influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State	<p>Monthly manual monitoring is being done by Third Party (M/s. Pollucon Laboratories Pvt. Ltd.) approved by NABL & Recognized by MoEF&CC, New Delhi under Sec. 12 of Environmental Protection Act-1986 and reports is being sent to GPCB & CPCB & MoEF&CC.</p> <p>Monthly manual Marine monitoring of Tapi Estuary is being done</p>	<p>Observation during the site visit: During the visit, the PP informed that third party monitoring is being done by NABL accredited laboratory M/s Pollucon Laboratories Pvt.</p>


	Pollution Control Board or described under the E(P) Act whichever are more stringent.	<p>by Third Party (M/s. Shree Green Environmental Laboratories) NABL accredited laboratory to evaluate the marine status of the estuary due to effluent discharge and report of the same is sent to GPCB & CPCB on monthly basis. Similarly, a six monthly report is also being sent to MoEF&CC.</p> <p>Further 8 locations sampling and analysis of physico-chemical & biological environmental monitoring is conducted pre monsoon and post monsoon to study the overall impact on marine environment due to discharge of Treated effluent to the estuary by Third Party (M/s. Shree Green Environmental Laboratories) NABL accredited laboratory involving Marine ecology & Biodiversity expert.</p> <p>Third party Effluent & Marine Monitoring Reports Results for Apr'20 - Sep'20 along with Third Party Monitoring Report for Sep'20 enclosed herewith as Annexure - 4.</p>	<p>Ltd. The monitoring reports were furnished by the PP. It was noted that the total residual chlorine from STP(600m³ & 400m³) is exceeding the norms.</p> <p>Further, it was observed that at some locations the industrial waste water was got mixed with storm water drains.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied.</p> <p>PARTLY COMPLIED</p>						
(xii)	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid / hazardous waste shall be submitted to the Ministry's Regional Office, SPCB and CPCB.	<p>All the Solid waste & Hazardous waste Handling, Storage, Utilization and disposal is being done in environment friendly manner as per statutory guidelines.</p> <p>Hazardous waste disposal is being done at GPCB approved TSDF Site / Recyclers.</p> <p>Details of Hazardous Waste disposal from Apr'20 - Sep'20 as below:</p> <table border="1"> <thead> <tr> <th>Particular</th> <th>Quantity Disposed</th> </tr> </thead> <tbody> <tr> <td>ETP Sludge</td> <td>1344 MT</td> </tr> <tr> <td>Discarded Drums & Container</td> <td>5105 Nos.</td> </tr> </tbody> </table>	Particular	Quantity Disposed	ETP Sludge	1344 MT	Discarded Drums & Container	5105 Nos.	<p>Observation during the site visit: The PP furnished the hazardous waste disposal data during the compliance period. However, during the visit it was observed that the ETP Sludge was scattered near the ETP & also a huge quantity of sludge was stored in open.</p> <p>In view of the information furnished by PP and as per the site observations noted above,</p>
Particular	Quantity Disposed								
ETP Sludge	1344 MT								
Discarded Drums & Container	5105 Nos.								



		<table border="1" style="width: 100%;"> <tr> <td>Used Oil</td> <td>41.40 KL</td> </tr> <tr> <td>Zinc Dross</td> <td>484.35 MT</td> </tr> </table> <p>TSDF Membership Certificate:</p> 	Used Oil	41.40 KL	Zinc Dross	484.35 MT	<p>the stipulated condition is considered as partly complied.</p> <p>PARTLY COMPLIED</p>
Used Oil	41.40 KL						
Zinc Dross	484.35 MT						
(xiii)	A time bound action plan shall	Solid waste generated during construction is reused for	Observation during the site visit:				



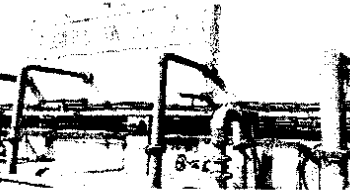
	be submitted to reduce solid waste generated due to the project related activities, its proper utilization and disposal.	backfilling and internal road making purpose. Details are already submitted in EIA Report.	<p>The PP stated that solid waste generated during construction is reused for backfilling and internal road making purpose. However, the PP should clarify regarding submission of time bound action plan.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied.</p> <p>PARTLY COMPLIED</p>
(xiv)	Proper utilization of fly ash shall be ensured as per Fly ash Notification, 1999 and Subsequent amendment in 2003 and 2009. All the fly ash shall be provided to cement and brick manufactures for further utilization and Memorandum of Understanding shall be submitted to the Ministry's Regional Office at Chennai	There is no generation of fly ash from our Unit, hence request for Deletion of this condition.	<p>Observation during the site visit: The PP stated that there is no generation of fly ash from their unit and request for deletion of this condition.</p> <p>In view of the submission by PP, the stipulated condition may be considered as not complied till the needful amendment.</p> <p>NOT COMPLIED</p>
(xv)	A Risk and Disaster Management Plan shall be prepared and a copy submitted	Risk and Disaster Management Plan already submitted along with the EIA Report.	<p>Observation during the site visit: The PP informed that Risk and Disaster Management Plan</p>

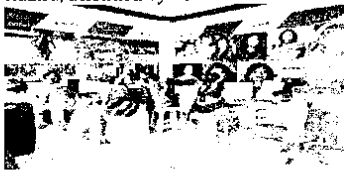

	<p>to the Ministry's Regional Office, SPCB and CPCB within 3 months of issue of environment clearance letter.</p>		<p>already submitted along with the EIA Report. However, the documentary proof is yet to be furnished by the PP.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied.</p> <p>PARTLY COMPLIED</p>
<p>{xvi}</p>	<p>Green belt shall be developed in at least 33% of the project area by planting native and broad leaved species in consultation with local DFO and local communities as per the CPCB guidelines.</p>	<p>Green Belt is developed within the complex with native and broad leaved species. From Apr'20-Sep'20, We have planted 1751 trees inside plant area. On an Average, we are doing plantation of 1500 to 2000 Nos. of trees per year.</p> 	<p>Observation during the site visit: During the visit, the PP informed that green belt is developed within the complex with native and broad leaved species. The PP further stated that they are doing plantation of 1500 to 2000 Nos. of trees per year. However, the PP should furnish the layout diagram with green belt and the details of total area and the area of green belt developed so far.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is</p>



			<p>considered as partly complied.</p> <p>PARTLY COMPLIED</p>
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<p>{xvii}</p>	<p>At least 5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured by constituting a Committee comprising of the proponent,</p>	<p>Since last 5 Years, Company was recurring losses and was under CIRP process and referred to NCALT. So, we are not falling under the norms of CSR activities because of said reason. However, we have undertaken community development activities for nearby villages, Brief summary of Community Development Activities for nearby villagers are as follows: 1) Computer Literacy skill training at Lok Vikas Kendra, Hazira, attended by 15 students benefited every day.</p>	<p>Observation during the site visit: The PP furnished some of the details of community development activities like Computer Literacy skill training, providing support to the Nav Jagruti Vidhyavihar Hazira, tailoring training to women etc. However, the PP should submit the item-wise expenditure details for last three years &</p>

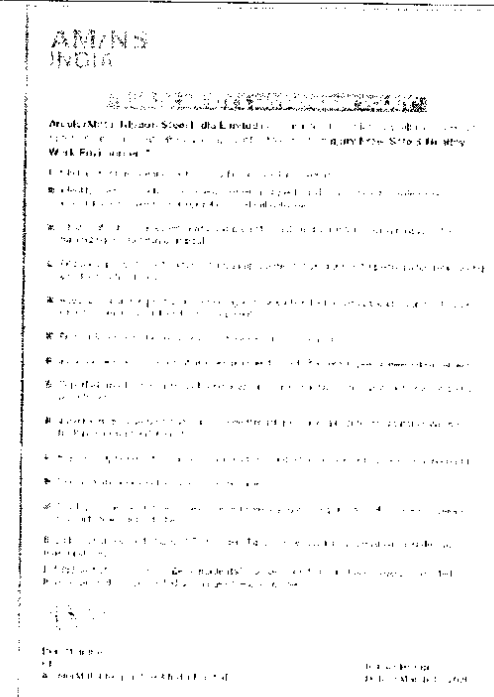
	<p>representatives of village panchayat and District Administration. Action taken report in this regard shall be submitted to the Ministry's Regional Office.</p>	 <p>2) For quality education we are supporting to the Nav Jagruti Vidhyavihar Hazira by providing two teachers, (Science and Computer Subject) around 60 students benefited every day.</p>  <p>3) Every day 120 village women taking tailoring training at our four Lok Vikas Kendras at <input checked="" type="checkbox"/> Hazira village, <input checked="" type="checkbox"/> Mora village <input checked="" type="checkbox"/> Junagam village and <input checked="" type="checkbox"/> Damka village.</p>	<p>the fund earmarked towards the Enterprise Social Commitment. The PP should also furnish a time bound action plan. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied. PARTLY COMPLIED</p>
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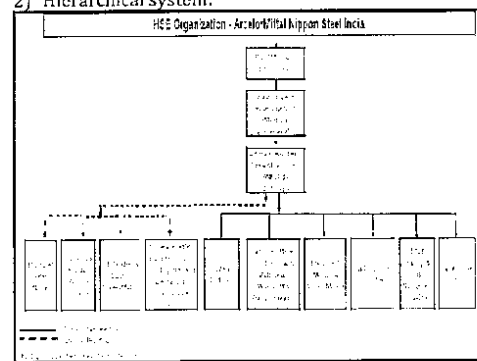
		 <p>4) The women of Lok Vikas Kendras, Hazira, Damka, Mora and Junagam village in Corona lockdown received an order from Sarpanch of Junagam village to make 10,000 masks in which they also earned about 40,000 rupees.</p>  <p>5) Every day around 9.5 Lakh liters drinking water is supplied through pipeline to Hazira, Matafaliya and Gundardi. Around 15000 villagers benefited.</p> 	
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<p>(xviii)</p>	<p>The proponent shall prepare a detailed CSR plan for every year for the next 5 years for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A Separate budget head shall be created and the annual capital and revenue expenditure on various activities of the plan shall be submitted as part of the Compliance report to RO. The details of the CSR plan shall also uploaded on the company website and shall also be provided in the Annual</p>	<p>Since last 5 Years, Company is recurring losses and was under CIRP process and referred to NCALT. So, we are not falling under the norms of CSR activities because of said reason. For 2020-21, if company will gain profits, we will follow the guidelines of CSR. However, we have undertaken community development activities for nearby villages. Brief summary of Community Development Activities for nearby villagers are as follows:</p> <ol style="list-style-type: none"> 1) Computer Literacy skill training at Lok Vikas Kendra, Hazira, attended by 15 students benefited every day.  <ol style="list-style-type: none"> 2) For quality education we are supporting to the Nav Jagruti Vidhyavihar Hazira by providing two teachers, (Science and Computer Subject) around 60 students benefited every day. 	<p>Observation during the site visit: The PP stated that since last 5 years, company is recurring losses and was under CIRP process and referred to NCALT. So, they are not falling under the norms of CSR activities because of said reason.</p> <p>The PP further informed that they will follow the guidelines of CSR, if company will gain profits.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as agreed to comply.</p> <p>AGREED TO COMPLY</p>
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	<p>5) Every day around 9.5 Lakh liters drinking water is supplied through pipeline to Hazira, Matafalya and</p>  <p>4) The women of Lok Vikas Kendras, Hazira, Damka, Mora and Junagam village in Corona lockdown received an order from Sarpanch of Junagam village to make 10,000 masks in which they also earned about 40,000 rupees.</p>  <p>3) Every day 120 village women taking tailoring training at our four Lok Vikas Kendras at</p> <ul style="list-style-type: none"> ☑ Hazira village, ☑ Mora village ☑ Junagam village and ☑ Damka village. 	<p>Report of the company.</p>
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		<p>Gundardi. Around 15000 villagers benefited.</p> 	
(xix)	<p>The Company shall submit within three months their policy towards Corporate Environment Responsibility which shall interalia address (i) Standard operating process/ procedure to being into focus any infringement / deviation / violation of environmental or forest norms/ conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non-compliance/ violation environmental norms to the Board of Directors of the</p>	<p>Health Safety & Environment policy, SOP, Hierarchical system & System for reporting of non-compliance already in place. Find below 1) HSE Policy:</p>	<p>Observation during the site visit: The PP furnished the copy of HSE Policy & hierarchical diagram of HSE. However, the PP should clarify regarding submission of policy towards Corporate Environment Responsibility within the stipulated time. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied. PARTLY COMPLIED</p>

	<p>company and/ or stakeholders or shareholders.</p>		
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		<p>2) Hierarchical system:</p> 	
(xx)	<p>The project proponent shall provide for solar light system for all common areas, street lights, villages, parking around project area and maintain the same regularly.</p>	<p>Presently the project is under conceptual stage, will be undertaken during project execution.</p>	<p>Observation during the site visit: The PP agreed to comply with the stipulated condition.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as agreed to comply.</p> <p>AGREED TO COMPLY</p>
(xxi)	<p>The project proponent shall provide for LED lights in their</p>	<p>LED Lights are installed at Plant offices & Township.</p>	<p>Observation during the site visit: It was noted that LED Lights</p>


	offices and residential areas.		have been provided in offices & Township. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied. COMPLIED
(xxii)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	All necessary welfare amenities are in place for the construction workers.	Observation during the site visit: The PP informed that all necessary welfare amenities are in place for the construction workers. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as compliance in progress. COMPLIANCE IN PROGRESS
B.	GENERAL CONDITIONS		
(i)	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB) and the State Government.	We abide by the stipulations made by the Gujarat Pollution Control Board. We are regularly submitting to Gujarat Pollution Control (GPCB) Environmental Monitoring & Analysis Report every month & Environment Statement (Form V) every year. Kindly find enclosed herewith the Monthly Environment Monitoring Report & Environment Statement (Form V) for all	Observation during the site visit: The PP furnished the copy of Environment Statement (Form V). However, the PP should furnish the point-wise compliance status of CC&A. Further, during



		divisions as Annexure 5.	the visit various non-compliances regarding ETP Sludge disposal and industrial waste water were observed. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied. PARTLY COMPLIED
(ii)	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).	In past, we have followed the MoEF&CC guidelines for expansion or modifications in the plant with prior approval. In Future for any expansion or modifications, we will apply for prior approval from MoEF&CC.	Observation during the site visit: The PP agreed to comply with the stipulated condition. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as agreed to comply. AGREED TO COMPLY
(iii)	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM ₁₀ , SO ₂ and NO _x are anticipated in consultation with the SPCB.	Installed Four nos. of Continuous (24*7) Ambient Air Quality Monitoring Stations (CAAQMS). Monthly manual monitoring is being done ambient & Stacks by Third Party (M/s. Pollucon Laboratories Pvt. Ltd.) approved by NABL & Recognized by MoEF&CC, New Delhi under Sec. 12 of Environmental Protection Act-1986 and reports are being sent to GPCB & CPCB every month and to MoEF&CC Regional Office at Bhopal once in six months.	Observation during the site visit: During the site visit, the PP informed that four nos. of Continuous (24*7) Ambient Air Quality Monitoring Stations (CAAQMS) have been installed. The third party ambient air monitoring & stack emission



	Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhopal and SPCB / CPCB once in six months.	Third party Ambient Monitoring Reports Results for Apr'20 - Sep'20 along with Third Party Monitoring Report for Sep'20 enclosed herewith as Annexure - 1.	monitoring reports as monitored by NABL accredited laboratory, M/s. Pollucon Laboratories Pvt. Ltd., were furnished by the PP. It is noted that the parameters are within the stipulated norms during the compliance period. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied. COMPLIED
(iv)	Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Monthly manual monitoring is being done by Third Party (M/s. Pollucon Laboratories Pvt. Ltd.) approved by NABL & Recognized by MoEF&CC, New Delhi under Sec. 12 of Environmental Protection Act-1986 and reports is being sent to GPCB & CPCB & MoEF&CC. Monthly manual Marine monitoring of Tapi Estuary is being done by Third Party (M/s. Shree Green Environmental Laboratories) NABL accredited laboratory to evaluate the marine status of the estuary due to effluent discharge and report of the same is sent to GPCB & CPCB on monthly basis. Similarly, a six monthly report is also being sent to MoEF&CC. Further 8 locations sampling and analysis of physico-chemical & biological environmental monitoring is conducted pre monsoon and post monsoon to study the overall impact on marine environment due to discharge of Treated effluent to the estuary by Third Party (M/s. Shree Green Environmental Laboratories)	COMPLIED Observation during the site visit: During the visit, the PP informed that third party monitoring is being done by NABL accredited laboratory M/s Pollucon Laboratories Pvt. Ltd. The PP informed that treated wastewater is being utilized for plantation purpose. However, it was observed that at some locations the industrial waste water was got mixed with storm water drains.

		NABL accredited laboratory involving Marine ecology & Biodiversity expert. Third party Effluent & Marine Monitoring Reports Results for Apr'20 - Sep'20 along with Third Party Monitoring Report for Sep'20 enclosed herewith as Annexure - 4. The treated wastewater is being utilized for plantation purpose.	In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied. PARTLY COMPLIED
(v)	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Acoustic hoods, Silencers, Enclosures etc. are already installed at various locations in the plants on all sources of noise generation. Monthly manual monitoring is being done for Noise levels by Third Party (M/s. Pollucon Laboratories Pvt. Ltd.) approved by NABL & Recognized by MoEF&CC, New Delhi under Sec. 12 of Environmental Protection Act-1986 and reports is being sent to GPCB & CPCB & MoEF&CC. Third party Noise Monitoring Reports Results for Apr'20 - Sep'20 along with Third Party Monitoring Report for Sep'20 enclosed herewith as Annexure - 6.	Observation during the site visit: During the site visit, the PP furnished the noise monitoring reports as monitored by NABL accredited laboratory, M/s. Pollucon Laboratories Pvt. Ltd. It is noted that the parameters are within the stipulated norms during the compliance period. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied. COMPLIED
(vi)	Occupational Health surveillance of the workers shall be done on a regular basis and records maintained as per Factories Act.	Occupational Health Surveillance Programme & medical checkup of all workers and employees of company are being carried out and records of the same are maintained. Contractual Worker's & Employee's Medical Checkup working in Hazardous operations - Once in Six months. Contractual Worker's & Employee's Medical Checkup - Once in a year. Pre-employment Medical checkup also carried out.	Observation during the site visit: The visit to OHC was undertaken. The PP furnished the details available facilities & medical check-up programme. The records are being maintained by the PP.

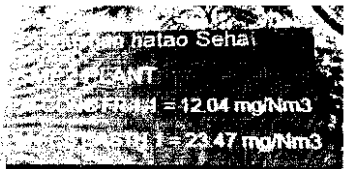
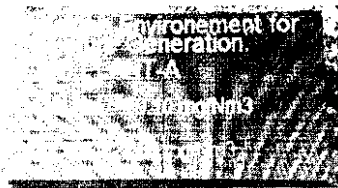
			<p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied.</p> <p>COMPLIED</p>
(vii)	<p>The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.</p>	<p>We are having 6 Nos. of water reservoirs for rain water harvesting. Total 8,10,081 m³ rain water harvested for the period Apr'20 – Sep'20.</p> 	<p>Observation during the site visit: The visit to water reservoir was undertaken. The PP informed that total 8,10,081 m³ rain water harvested for the period Apr'20 – Sep'20. The treated effluent is being used for dust suppression and green belt development.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied.</p> <p>COMPLIED</p>

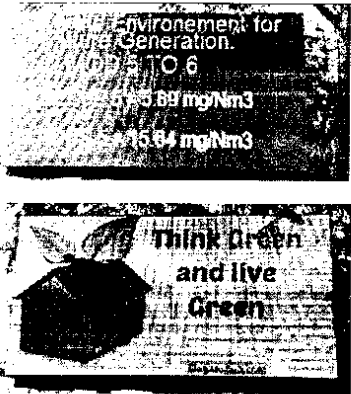
(viii)	<p>The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.</p>	<p>Since last 5 Years, Company is recurring losses and was under CIRP process and referred to NCALT. So, we are not falling under the norms of CSR activities because of said reason. For 2020-21, if company will gain profits, we will follow the guidelines of CSR. However, we have undertaken community development activities for nearby villages. Brief summary of Community Development Activities for nearby villagers are as follows:</p> <ol style="list-style-type: none"> 1) Computer Literacy skill training at Lok Vikas Kendra, Hazira, attended by 15 students benefited every day.  <ol style="list-style-type: none"> 2) For quality education we are supporting to the Nav Jagruti Vidhyavihar Hazira by providing two teachers, (Science and Computer Subject) around 60 students benefited every day. 	<p>Observation during the site visit: The PP furnished the details of community development activities like Computer Literacy skill training, providing support to the Nav Jagruti Vidhyavihar Hazira, tailoring training to women etc.</p> <p>However, the PP should also submit the point-wise compliance status of EIA/EMP report recommendations.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied.</p> <p>PARTLY COMPLIED</p>
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		 <p>3) Every day 120 village women taking tailoring training at our four Lok Vikas Kendras at</p> <ul style="list-style-type: none"> ☑ Hazira village, ☑ Mora village ☑ Junagam village and ☑ Damka village.  <p>4) The women of Lok Vikas Kendras, Hazira, Damka, Mora and Junagam village in Corona lockdown received an order from Sarpanch of Junagam village to make 10,000 masks in which they also earned about 40,000 rupees.</p>	
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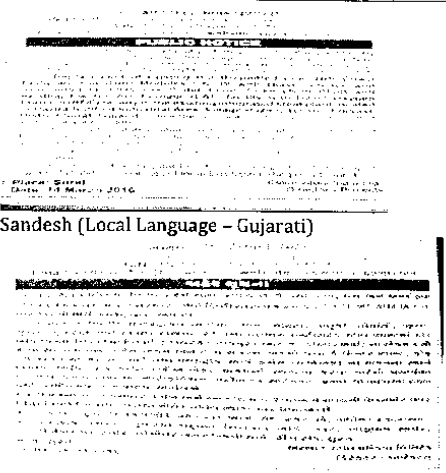
		 <p>5) Every day around 9.5 Lakh liters drinking water is supplied through pipeline to Hazira, Matafaliya and Gundardi. Around 15000 villagers benefited.</p> 							
(ix)	<p>Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change</p>	<p>Capital Cost spent towards installation of Air & Water pollution control measures is 557 Crores. Recurring Cost for operation & maintenance of Pollution control equipments:</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Recurring Cost (Rs. In Crores)</th> </tr> </thead> <tbody> <tr> <td>2017-18</td> <td>134 Crores</td> </tr> <tr> <td>2018-19</td> <td>162 Crores</td> </tr> </tbody> </table>	Year	Recurring Cost (Rs. In Crores)	2017-18	134 Crores	2018-19	162 Crores	<p>Observation during the site visit: The PP furnished the capital cost and recurring cost/annum for environment pollution control measures.</p> <p>In view of the information furnished by PP and as per the site observations noted above,</p>
Year	Recurring Cost (Rs. In Crores)								
2017-18	134 Crores								
2018-19	162 Crores								

	(MoEF&CC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhopal. The funds so provided shall not be diverted for any other purpose.	2019-20 152 Crores Details already submitted to Ministry office.	the stipulated condition is considered as complied. COMPLIED
(x)	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The Clearance letter shall also be put on the website of the company by the proponent.	We are complying. Our Industry is falling under Hazira Notified Area. As per the guidelines of Hazira Notified area we have submitted all the required informations to the Authorities of Hazira Notified areas.	Observation during the site visit: The PP stated that their industry is falling under Hazira Notified Area. As per the guidelines of Hazira Notified area they have submitted all the required informations to the Authorities of Hazira Notified areas. However, the documentary proof is yet to be furnished by the PP. In view of the submission by PP, the stipulated condition may be considered as partly complied. PARTLY COMPLIED
(xi)	The project proponent shall upload the status of	We are complying. Six monthly Environment Clearance Condition compliance report	Observation during the site visit: The Six monthly compliance reports are being submitted by

compliance of the stipulated environment clearance condition, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF&CC at Bhopal. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	is being sent to MoEF&CC & same data uploaded on to the website of MoEF&CC regularly. For the period of Apr'20 to Sep'20 report already submitted dated 20th Nov, 2020 on MoEF&CC website. Also we have submitted Hard copy through Registered post along with Soft copy in CD. Online Monitoring results of pollutant levels namely; PM10, SO2, NOx (ambient levels as well as stack emissions) is being displayed near main gate of the company in the public domain. Photographs of Online Monitoring display board given below:  	the PP. The Online Monitoring results of pollutant (PM10, SO2, NOx) levels are being displayed near main gate of the company. However, the PP should clarify regarding the uploading of compliance status of the stipulated environment clearance condition, including results of monitored data on their website. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied. PARTLY COMPLIED
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(xii)	<p>The Project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e mail) to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhopal/ CPCB/ SPCB shall</p>	<p>We are complying. Six monthly Environment Clearance Condition compliance report is being sent to MoEF&CC & same data uploaded on to the website of MoEF&CC regularly. For the period of Apr'20 to Sep'20 report already submitted dated 20th Nov, 2020 on MoEF&CC website. Also we have submitted Hard copy through Registered post along with Soft copy in CD.</p>	<p>Observation during the site visit: The Six monthly compliance reports are being submitted by the PP. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied. COMPLIED</p>

(xiii)	<p>monitor the stipulated conditions. The environmental statement for each financial year ending 31st March in Form - V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently, shall also put on website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MoEF&CC at Bhopal by email.</p>	<p>We are maintaining the MoEF&CC guidelines regularly. Kindly find enclosed herewith the Environment Statement (Form V) for all divisions as Annexure 5.</p>	<p>Observation during the site visit: The furnished the copy of Environment Statement (Form V). In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied. COMPLIED</p>
(xiv)	<p>The project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at website of the Ministry of Environment, Forests and Climate Change (MoEF&CC) at http://envfor.nic.in. This shall</p>	<p>Clearance Letter - Public Notice dated 14th March, 2016 advertised in Two Local Newspapers on 19th March, 2016 one of which in local vernacular language (Gujarati): 1) Indian Express</p>	<p>Observation during the site visit: The PP furnished the copy of advertisement published in "Indian Express" & "Sandesh" newspapers. The PP informed that the Public Notice dated 14th March, 2016 advertised in above mentioned Local Newspapers on 19th March, 2016. In view of the information</p>

	<p>be advertised within seven days from the date of issue of the clearance letter, at least in two local newspaper that are widely circulated in the region of which one should be in vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office at Bhopal.</p>	 <p>2) Sandesh (Local Language – Gujarati)</p>	<p>furnished by PP and as per the site observations noted above, the stipulated condition may be considered as complied.</p> <p>COMPLIED</p>
(xv)	<p>Project Authorities 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 and the date of commencing the land development work.</p>	<p>Will be complied after commissioning of the project.</p>	<p>Observation during the site visit: The PP agreed to comply with the stipulated condition.</p> <p>In view of the submission by PP, the stipulated condition is considered as agreed to comply.</p> <p>AGREED TO COMPLY</p>

Part - II & III

DESCRIPTIVE REPORT ON STATUS OF COMPLIANCE TO CONDITIONS OF ENVIRONMENT CLEARANCE AND ENVIRONMENT MANAGEMENT

Details of project: Environment Clearance for Integrated Steel Plant (5.0 MTPA) at Hazira, District Surat, Gujarat by M/s Arcelor Mittal Nippon Steel India Limited (Formerly Essar Steel India Limited)

EC No: F.No. J-11011/714-A/2008-IA II (I) dated 5th July, 2010.
(Compliance Status for the period April 2020 to September 2020)

Sr. No.	EC Condition	Status of Compliance as submitted by the PP	Remarks of MoEF&CC, Regional office based on the compliance status furnished by the Project Proponent and the on-field observations of the site visit
A.	SPECIFIC CONDITIONS		
i.	<p>The Ministry's environmental clearance accorded for the existing Integrated Steel Plant (4.5 MTPA) along with Captive Power Plant (270 MW) Vide letter nos. J – 11011/74/06 IA dated 13th June, 2006, J – 11011 / 327 / 2006 – IA.II (I) dated 25th April, 2007 and 29th May, 2008 & Integrated Steel Plant (5.0 MTPA) along with Captive Power Plant (270 MW) vide letter no. J-11011/714/2008-IA II (I) dated 22nd December, 2008 for the specified</p>	-	<p>The condition may be considered as noted.</p> <p>NOTED</p>

	products in the name of M/S Essar Steel(Hazira) Limited stands withdrawn and supersedes the previous environmental clearance from the date of issue of this environmental clearance.		
ii.	The gaseous emissions from various units shall conform the load/mass based standards notified by the Ministry on 19 th May, 1993 and standards prescribed from time to time. The Gujarat state pollution Control Board (GSPCB) may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency.	Air Pollution Control systems are implemented. Adequate interlocks are provided with Air Pollution Control measures. Continuous Emission Monitoring Systems (CEMS) are installed & real time data is being sent to CPCB. Monthly Monitoring of Ambient Air quality and stack emissions as per consent granted by GPCB are being carried out by Third Party Approved Lab and report of the same is sent to GPCB & CPCB on monthly basis. Similarly a six monthly report is also being sent to MoEF.	<p>Observation during the site visit: During the visit, the PP informed that continuous stack monitoring facilities for 72 stacks have been provided with effective air pollution control devices.</p> <p>The third party stack emission monitoring reports/data as monitored by NABL accredited laboratory, M/s. Pollucon Laboratories Pvt. Ltd., were furnished by the PP. The reports were checked randomly and it was noted that the parameters were within the stipulated norms during the compliance period.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied.</p> <p>COMPLIED</p>
iii.	Efforts shall be made to reduce RSPM levels in the ambient air and a time	Please refer list of APC measures implemented as Annexure - I With implementation of these measures,	<p>Observation during the site visit: During the visit, the PP informed that four nos. of Continuous (24*7)</p>

	bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the parameters (SPM, SO2 and NOx including CO) and sufficient air pollution control devices shall be provided to keep emissions levels below 100 mg / Nm3 and data shall be submitted to Ministry's Regional Office at Bhopal, CPCB and GPCB.	Continuous stack monitoring is provided to all stacks as per consent. Monthly Monitoring of Ambient Air quality and stack emissions as per consent granted by GPCB are being carried out by Third Party Approved Lab and report of the same is sent to GPCB & CPCB on monthly basis. Similarly a six monthly report is also being sent to MoEF.	<p>Ambient Air Quality Monitoring Stations (CAAQMS) have been installed & stack monitoring facilities for 72 stacks have been provided with effective air pollution control devices.</p> <p>The third party AAQ & stack emission monitoring reports/data as monitored by NABL accredited laboratory, M/s. Pollucon Laboratories Pvt. Ltd., were furnished by the PP. The reports were checked randomly and it was noted that the parameters were within the stipulated norms during the compliance period.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied.</p> <p>COMPLIED</p>
iv.	Electrostatic precipitator (ESP) to pellet plant, CPP, high efficiency ventury Scrubber(auxiliary) to Hot Briquetted Iron(HBI)Plant, wet type double ventury Scrubber shall be provided to gas cleaning system of Blast Furnace(BF) and bag filters to coal	Suggested APC are provided to these plants. Please refer Annexure - I for list of APC measures implemented.	<p>Observation during the site visit: The PP furnished the details of various APC measures implemented.</p> <p>The third party stack emission monitoring reports/data as</p>

	blending section, dry coal screen house, cast house, stock house, lime kiln etc. shall be provided to control gaseous emissions within the permissible limit. The flue gas emission through stacks attached to the boiler, furnace and heater shall conform to the standards prescribed by the GPCB and data shall be submitted to Ministry's Regional Office at Bhopal, CPCB and GPCB.		monitored by NABL accredited laboratory, M/s. Pollucon Laboratories Pvt. Ltd., were furnished by the PP. The reports were checked randomly and it was noted that the parameters were within the stipulated norms during the compliance period. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied. COMPLIED
iii.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be followed.	-	Observation during the site visit: The PP informed that National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No 826 (E) dated 16th November, 2009 is being followed. The PP further informed that four nos. of Continuous (24*7) Ambient Air Quality Monitoring Stations (CAAQMS) have been installed. The third party ambient air monitoring reports as monitored by NABL accredited laboratory, M/s. Pollucon Laboratories Pvt. Ltd., were furnished by the PP. It is noted that AAQ parameters are

			within the stipulated norms during the compliance period. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied. COMPLIED
iv.	In plant control measures for controlling fugitive emissions from spillage/ raw materials handling shall be provided. Further, specific measures like water Sprinklers/bag filters/ cyclone dedusting system shall be provided to raw material handling section, transfer points, conveyors and hoppers, curtains etc. suitable enclosures, dust collection system and water sprinkling on haul roads shall be provided to control fugitive emissions. Dust from the induction furnace shall be collected in the hoods and dusty air will be cleaned by using cyclone and venture scrubber. Fume extraction system with bag filters shall be provided to Steel Melting Shop (SMS) and caster Steel plant (CSP). Dedusting system with bag filters shall be provided to cast house, stock house, coal injection system, hot metal de - sulphurization mixer of BF.	Please refer Annexure - 1 for list of measures taken for control of fugitive emission in Material Handling areas (MH). Water sprinkling on haul roads in material handling area is provided to control fugitive emissions. Monthly monitoring of fugitive emissions are being carried out by Third Party Approved Lab and report of the same is sent to GPCB & CPCB on monthly basis. Similarly a six monthly report is also being sent to MoEF.	Observation during the site visit: The PP informed that monthly manual monitoring is being done for fugitive emissions by third party (M/s. Pollucon Laboratories Pvt. Ltd.) approved by NABL & Recognized by MoEF&CC, New Delhi. The monitoring data furnished by the PP shows that parameter are within the stipulated norms during the compliance period. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied. COMPLIED

	Data on fugitive emissions shall be regularly monitored and records maintained.		
v.	Gaseous emission levels including secondary fugitive emissions from blast furnace and sinter plant shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of practice issued by the CPCB shall be followed. The emission standards issued by the Ministry in May, 2008 for the Sponge plants shall be followed.	APCs implemented for Blast Furnace & Sinter plant for fugitive emissions control.	<p>Observation during the site visit: The PP stated that APCs implemented for Blast Furnace & Sinter plant for fugitive emissions control. The PP further informed that monthly manual monitoring is being done for fugitive emissions by third party (M/s. Pollucon Laboratories Pvt. Ltd.) approved by NABL & Recognized by MoEF&CC, New Delhi.</p> <p>The monitoring data furnished by the PP shows that parameters are within the stipulated norms during the compliance period.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied.</p> <p>COMPLIED</p>
vi.	Vehicular Pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading	Arrangements are in place for Dust emission control.	<p>Observation during the site visit: During visit, the PP informed that various dust control measures are in place. Regular cleaning of dust is being done on roads through</p>

	and unloading of the raw material and finished product.		<p>mechanical sweepers. Water sprinkling systems are installed at various locations for controlling of dust emission.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied.</p> <p>COMPLIED</p>
vii.	Total water requirement from Singanore Weir shall not exceed 1, 00, 838 m ³ / day. No ground water shall be used. Separate drains for domestic, process, storm water shall be provided in consultation with GPCB. All the other effluents shall be treated in plant – wise independent waste water treatment system. BF – GCP and coal washery water shall be treated in thickener and used in the pig casting machine. Acidic and alkaline effluent from DM water plant shall be neutralized and reused in the plant through ash pond. Oil traps shall be provided to remove oil and grease. All the treated waste water from process shall be treated and recycled and reused for ash handling, dust suppression and green belt	We are granted approval of 45 MGD from Irrigation Dept. The units have their own water circulation system (WCS) installed as per Annexure - II, which ensure maximum recycle and reuse of water and reduce the discharge into the Tapi estuary. The treated sewage is being used for Greenbelt development. Monthly monitoring of Treated Effluent are being carried out by Third Party Approved Lab and report of the same is sent to GPCB & CPCB on monthly basis. Similarly a six monthly report is also being sent to MoEF.	<p>Observation during the site visit: The PP informed that they are granted approval of 45 MGD from irrigation department. The PP further informed that the unit have their own water circulation system (WCS) installed, which ensure maximum recycle and reuse of water and reduce the discharge into the Tapi estuary.</p> <p>However, the PP should submit the month-wise daily max. and min. water usage data.</p> <p>Further during the visit, it was observed that at some locations the industrial waste water was got mixed with storm water drains.</p>

	development. The domestic wastewater shall be treated in STP and treated wastewater after conforming to the prescribed standards shall be used for green belt development.		In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied. PARTLY COMPLIED
viii.	An effort shall be made not to discharge any treated waste water outside the premises and adopt 'Zero' effluent discharge. An effort shall be made to recycle and reuse the maximum treated wastewater in the process itself to reduce quantity of water consumption and effluent discharge into Tapi estuary. Only excess treated waste water after meeting the norms of Gujarat Pollution Control Board or as mentioned in E(P) Act, whichever are more stringent, shall be discharged to Tapi Estuary through RCG Pucca Channels.	Efforts are being taken to maximum reuse / recycle of Treated Effluents within the system. Monthly Marine monitoring of Tapi Estuary is being conducted by Third Party Approved Lab to evaluate the marine status of the estuary due to effluent discharge and report of the same is sent to GPCB & CPCB on monthly basis. Similarly, a six monthly report is also being sent to MoEP&CC. Further 8 locations sampling and analysis of chemical & biological environmental monitoring is conducted post monsoon and pre monsoon to study the overall impact on marine environment due to discharge of Treated effluent to the estuary by third party involving Marine ecological expert. Water circulation systems as mentioned in Annexure - II.	Observation during the site visit: During the visit, it was observed that at some locations the industrial waste water was got mixed with storm water drains. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as not complied. NOT COMPLIED
ix.	Prior permission for the drawl of 1, 00, 838 m ³ / day water from Singanpore Weir from the concerned department shall be obtained.	Approval obtained from Irrigation department for water drawl.	Observation during the site visit: The PP informed that approval has been obtained from Irrigation department for water drawl. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered

			as complied. COMPLIED
x.	The Water consumption shall not exceed 16 m ³ / Ton of Steel as per prescribed standard.	We comply this condition.	Observation during the site visit: The PP stated that they comply this condition. However, the PP should submit the water consumption data for the stipulated condition. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied. PARTLY COMPLIED
xi.	Ground water monitoring around the solid waste disposal site / secured landfill (SLF) shall be carried out regularly and report submitted to the Ministry's Regional Office at Bhopal, CPCB and GPCB.	Regular monitoring of Ground Water around the solid waste disposal site / secured landfill (SLF) are being carried out by Third Party Approved Lab and report of the same is sent to GPCB & CPCB on monthly basis. Similarly a six monthly report is also being sent to MoEF.	Observation during the site visit: The PP stated that they comply this condition. The ground water monitoring reports were furnished by the PP. The ground water monitoring report at slag dumping area behind SMP 1 shows that the Total Dissolved Solids (TDS) is exceeding the limit. In view of the information furnished by PP and as per the site observations noted above, the

			<p>stipulated condition is considered as partly complied.</p> <p>PARTLY COMPLIED</p>
viii.	<p>All the char from DRI Plant shall be utilized in AFBC Boiler of power plant and no char shall be disposed off anywhere else. Lime / dolime fines, mill scales, iron ore fines, DRI Fines, scale, sinter dust etc. shall be used in sinter plant. Blast Furnace slag shall be granulated. Granulated slag, BF & Corex slag shall be provided to cement manufacturers for further utilization. As proposed, an effort shall also be made manufacture tiles from the slag. All the other solid wastes including EAF slag and broken refractory mass shall be properly disposed off in environment friendly manner. Used lube oil and oily waste shall be provided to authorized recyclers / reproprocessors.</p>	<p>BF & Corex plant is already having slag granulation facility. Slag processed in granulation plant & granulated slag is being sold to Cement manufacturers.</p> <p>By – products Viz. Lime/ Dolime fines, mill scale, iron ore fines, DRI fines, sinter dust, BF fines, coke fines and sludge cake of gas cleaning plant are being utilized in sinter plant. Slag generated from SMS is being utilized as:</p> <ol style="list-style-type: none"> 1) Substitution of quarry material for filling low laying areas as plant is closer to coastal area. 2) Internal Road making for expansion project activities. 3) Tiles making. 4) Ballast for Railway Track and Bund for Railways. 5) Load bearing platforms. 6) Compound Wall. 7) Shore protection. 8) Selling to nearby industries for above purpose. <p>Used Oil sold to authorized recyclers / reproprocessors.</p>	<p>Observation during the site visit: The PP informed that BF & Corex plant is already having slag granulation facility. Slag processed in granulation plant & granulated slag is being sold to Cement manufacturers.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as agreed to comply.</p> <p>AGREED TO COMPLY</p>
ix.	<p>A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.</p>	<p>Action plan for Solid waste utilization & disposal has already been submitted.</p>	<p>Observation during the site visit: The PP stated that action plan for Solid waste utilization & disposal has already been submitted.</p> <p>In view of the submission by PP,</p>

			<p>the stipulated condition is considered as complied.</p> <p>COMPLIED</p>
x.	<p>Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid / hazardous waste shall be submitted to the Ministry's Regional Office at Bhopal, SPCB and CPCB.</p>	<p>Regular Reports of Solid & hazardous waste are being sent to GPCB, CPCB & MoEF&CC.</p>	<p>Observation during the site visit: The PP furnished the hazardous waste disposal data during the compliance period. However, during the visit it was observed that the ETP Sludge was scattered near the ETP & also a huge quantity of sludge was stored in open.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied.</p> <p>PARTLY COMPLIED</p>
xi.	<p>As proposed, green belt for adequate width and density shall be provided in at least 33 % of plant area and along the boundary wall of the site as per the CPCB guidelines.</p>	<p>Green zones developed within the complex.</p>	<p>Observation during the site visit: During the visit, the PP informed that green belt is developed within the complex with native and broad leaved species. The PP further stated that they are doing plantation of 1500 to 2000 Nos. of trees per year. However, the PP should furnish the layout diagram with green belt</p>

			and the details of total area and the area of green belt developed so far. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied. PARTLY COMPLIED
xii.	The company shall undertake rainwater-harvesting measures by collecting the rainwater through drains. The water collected shall be connected to raw water pipeline for reuse in the plant. The Company shall provide proper drainage system for rain water to prevent water logging within and in the vicinity of the plant.	Rain water conservation measures has already been undertaken and practiced.	Observation during the site visit: The visit to water reservoir was undertaken. The PP informed that total 8,10,081 m ³ rain water harvested for the period Apr'20 - Sep'20. The treated effluent is being used for dust suppression and green belt development. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied. COMPLIED
xiii.	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Doing Occupational Health Surveillance programme & medical checkup of all workers and employees at Essar Hazira and records of the same are maintained.	Observation during the site visit: The visit to OHC was undertaken. The PP furnished the details of available facilities & medical check-up programme. The records are being maintained by the PP.

			In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied. COMPLIED
xiv.	The company shall comply with all the recommendations / action points made in the Charter on Corporate Responsibility for Environment Protection (CREPs) and progress report shall be submitted to MoEF/CPCB.	Report regularly submitted to CPCB.	Observation during the site visit: The PP stated that report regularly submitted to CPCB. However, the PP should furnish point-wise compliance status of Charter on Corporate Responsibility for Environment Protection (CREPs). In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied. PARTLY COMPLIED
xv.	Environmental Clearance under CRZ Notification shall be obtained for Deep Draught Berth (550 meter jetty along with channel) prior to commencement of the construction activities and the copy of environment clearance accorded shall be submitted.	CRZ clearance for Deep Draught Berth is granted.	Observation during the site visit: The PP informed that CRZ clearance for Deep Draught Berth has been obtained. In view of the information furnished by PP and as per the site observations noted above, the

			<p>stipulated condition is considered as complied.</p> <p>COMPLIED</p>
xiii.	Natural gas in Corex plant, Steel melting shop, Caster shop, long product mill and Lime plant shall be used. No Coke Oven plant shall be installed.	NG & Coal used as per the condition stipulated.	<p>Observation during the site visit: The PP stated that NG & Coal used as per the condition stipulated.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as agreed to comply.</p> <p>AGREED TO COMPLY</p>
xiv.	The Company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	All necessary amenities are provided to the construction workers.	<p>Observation during the site visit: The PP stated that all necessary amenities are provided to the construction workers.</p> <p>In view of the information furnished by PP and as per the site observations, the stipulated condition is considered as deemed complied.</p> <p>DEEMED COMPLIED</p>
B.	GENERAL CONDITIONS		
i.	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB)	CCA received by GPCB.	<p>Observation during the site visit: The PP furnished the copy of Environment Statement (Form V).</p>

	and the State Government.		<p>However, the PP should furnish the point-wise compliance status of CC&A.</p> <p>Further, during the visit various non-compliances regarding ETP Sludge disposal and industrial waste water were observed.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied.</p> <p>PARTLY COMPLIED</p>
ii.	No further, expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forest.	Prior approval will be taken for expansion or modification.	<p>The PP stated that prior approval will be taken for expansion or modification.</p> <p>In view of the submission by PP, the stipulated condition is considered as agreed to comply.</p> <p>AGREED TO COMPLY</p>
iii.	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the State Pollution Control Board. Data on	Four Online Ambient Air Quality- Monitoring Stations have been established. This is catering to the requirement of Integrated Steel Plant of ESHL also. Moreover, regular Monitoring of Ambient Air quality and stack emissions are being carried out by Third Party Approved Lab and report of the same is sent to GPCB & CPCB on monthly basis. Similarly a six	<p>Observation during the site visit: During the visit, the PP informed that four nos. of Continuous (24*7) Ambient Air Quality Monitoring Stations (CAAQMS) have been installed & stack monitoring facilities for 72 stacks have been</p>

	ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhopal and GPCB / CPCB once in six months.	monthly report is also being sent to MoEF. Report for the period Apr'20 to Sep'20 is enclosed as Annexure - III.	provided with effective air pollution control devices. The third party AAQ & stack emission monitoring reports/data as monitored by NABL accredited laboratory, M/s. Pollucon Laboratories Pvt. Ltd., were furnished by the PP. The reports were checked randomly and it was noted that the parameters were within the stipulated norms during the compliance period. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied. COMPLIED
iv.	Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.	Water circulation systems / ETPs are implemented as per Annexure-II.	Observation during the site visit: During the visit, the PP informed that third party monitoring is being done by NABL accredited laboratory M/s Pollucon Laboratories Pvt. Ltd. The PP informed that treated wastewater is being utilized for plantation purpose. However, it was observed that at

			some locations the industrial waste water was got mixed with storm water drains. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied. PARTLY COMPLIED
v.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Noise abatement measures implemented as per Annexure - I.	Observation during the site visit: During the site visit, the PP furnished the noise monitoring reports as monitored by NABL accredited laboratory, M/s. Pollucon Laboratories Pvt. Ltd. It is noted that the parameters are within the stipulated norms during the compliance period. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied. COMPLIED
vi.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP report. Further, the	Undertaken community development activities for nearby villages since inception. Please find enclosed socioeconomic development activities carried out by ESSAR during the period Apr'20 to Sep'20 as	Observation during the site visit: The PP furnished the details of community development activities like Computer Literacy skill

	company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.	Annexure – IV.	training, providing support to the Nav Jagruti Vidhyavihar Hazira, tailoring training to women etc. However, the PP should also submit the point-wise compliance status of EIA/EMP report recommendations. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied. PARTLY COMPLIED
vii.	As mentioned in the EIA / EMP, Project authorities shall ensure judicious utilization of Rs. 135.00 Crores and Rs.13.00 Crores earmarked towards the capital cost and recurring expenditure / annum earmarked for the environmental pollution control to implement the conditions stipulated by the Ministry of Environment and Forest as well as the State Government. An implementation schedule for complying with all the conditions stipulated herein shall be submitted to the Regional Office of this Ministry at Bhopal / CPCB / GSPCB. The funds so provided shall not	Utilization of Funds for Capital & Recurring expenditure for the environmental pollution control.	Observation during the site visit: The PP furnished the details of capital cost and recurring cost/annum for environment pollution control measures. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied. COMPLIED

	be diverted for any other purposes.		
viii.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	-	The PP should provide the complete details and documentary proof for the stipulated condition. In view of the observations noted above, the stipulated condition is considered as not complied till the submission of information. NOT COMPLIED
ix.	The project proponent shall upload the status of compliance of the stipulated environment conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF at Bhopal, the respective Zonal Office of CPCB and GPCB. The criteria pollutant levels namely: SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	-	Observation during the site visit: The Six monthly compliance reports are being submitted by the PP. The <i>Online Monitoring results</i> of pollutant (PM ₁₀ , SO ₂ , NO _x) levels are being displayed near main gate of the company. However, the PP should clarify regarding the uploading of compliance status of the stipulated environment clearance condition, including results of monitored data on their website. In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied.

			PARTLY COMPLIED
x.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and GPCB. The Regional Office of this Ministry at Bhopal/CPCB/GPCB shall monitor the stipulated conditions.	-	<p>Observation during the site visit: The Six monthly compliance reports are being submitted by the PP.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied.</p> <p>COMPLIED</p>
xi.	The environment statement for each financial year ending 31 st march in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.	-	<p>Observation during the site visit: The PP furnished the copy of Environment Statement (Form V).</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as complied.</p> <p>COMPLIED</p>
xii.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance	-	<p>No, information is furnished by the PP.</p> <p>However, the PP should submit the</p>

	letter are available with the GPCB and may also be seen at website of the Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office.		<p>details of newspapers with the publication date and copy of advertisements.</p> <p>In view of the above observations, the stipulated condition may be considered as partly complied.</p> <p>PARTLY COMPLIED</p>
xiii.	The Project Authorities 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 and the date of commencing the land development work.	Financial closure of the project is already completed and we have obtained Consent to Operate from GPCB.	<p>However, the PP should provide complete details like the date of financial closure and final approval of the project, the date of commencing the land development work for the stipulated condition.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied.</p> <p>PARTLY COMPLIED</p>

Summary note:

i. Implementation of conditions:

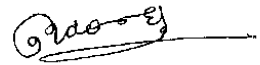
(a) EC No: F.No. J-11011/381/2014-IA II (I) dated 9th March, 2016:- Out of total 37 conditions, it may be seen that 16 are complied, 1 is compliance in progress, 13 are partly complied, 5 are agreed to comply and 2 are not complied.

(b) EC No: F.No. J-11011/714-A/2008-IA II (I) dated 5th July, 2010:- Out of total 36 conditions, it may be seen that 17 are complied, 1 is noted, 12 are partly complied, 3 are agreed to comply, 1 is deemed complied and 2 are not complied.

These have been explained in the foregoing compliance report against each of the conditions, and the PP needs to take necessary and time bound action for early compliance in respect of the relevant conditions.

ii. Court cases and show cause/closure notices:

The PP vide email dated 06.12.2020 submitted the detail of court cases. The detail is enclosed as annexure-I. The PP submitted the details of Show Cause/Closure notice issued by CPCB/GPCB during last 3 years vide email dated 06.12.2020 (Show Cause Notices issued in Last 03 Years - 4 Nos. & Notice of Directions issued in Last 03 Years - 6 Nos). The same are enclosed as annexure-II.



(Vishwa Bandhu Meena)
Scientist-C

Annexure 21: CtO compliance Report

COMPLIANCE REPORT OF CCA

Name: M/s. ArcelorMittal Nippon Steel India Limited (HRC Division)
Plot no: - 203-230,245-264,312-321, @27 Km Surat – Hazira Road,
Post Hazira – 394270,
Tal: Chorasi, Dist: Surat.

Sr. NO.	CONDITION			STATUS
1.	Consent Order No. AWH – 107719, Date of issue: 07/04/2020			---
2.	The consents shall be valid up to 31/12/2024 for the use of outlet for the discharge of treated effluent & air emission and to operation of industrial plant for manufacturing of the following items/products:			Complied.
	Sr. No.	Products	Total Quantity in MT/Month	
	1	HBI	498333	
	2	Iron Ore Fines	68604	
	3	LPG	5400	
	4	HR Coils	375000	
	5	Mill Scale	12050	
	6	Slag	98000	
	7	Iron fines	6000	
	8	Lime	40400	
	9	Lime fines	8000	
	10	Lime Stone / Do-lime Chips	10590	
	11	Off Grade Lime / Do-lime	720	
	12	Oxygen (Gaseous)	371120000	
	14	Oxygen (Liquid)	21240000	
	13	Nitrogen (Gaseous)	34520000	
	14	Argon	1058400	
	15	Hot Rolled Pickled Coils/ Sheets	170000	
	16	Cold rolled Coils / Sheets	108334	
	17	Galvanized Sheets/ Coils	54167	
	18	Off Grade Lime / Do-lime	720	
	19	Coated Sheet/Coils	8334	
	20	Spent Acid(m3/Day)	2350	
	21	Iron Oxide	1050	
	22	Captive Power(MU/Day)	744MWH (31 MW)	
	23	Extension of Existing Captive Jetty(734 Meters)	---	
	24	Power	25 MW	

SUBJECT TO SPECIFIC CONDITION		
1.	The applicant shall strictly comply with all condition stipulation in environment Clearance issued by ministry of Environment and Forest, New Delhi in order no. J-11011/74/2006 IA-II (I) dated 13/06/2016 and CRZ clearance for extension of existing Captive jetty vide order no. II-65/2005-IA-II Dated 18/09/2006 respectively.	Complied
2.	Industry shall comply with all specific conditions mentioned in Environmental Clearance issued by Govt. of India, Ministry of Environmental and Forest vide their letter no. J-11011/74/2006 IA-II (I)dated 13/06/2016.	Complied
3.	The unit shall strictly observe and comply with condition stipulation made in Environmental Clearance issued by MOEF, New Delhi in its Order No. J-11011/45/2004 IA-II (I) dated 07/11/2005.	Complied
4.	The applicant shall strictly observe and comply with various stipulation imposed by MOEF, NewDelhi in its Order No. J-11011/4/92 IA-II (I) dated 23/07/1992 & submit compliance report thereof.	Complied
5.	The application shall strictly have observed & comply with all condition Environmental Clearance granted by Ministry of Environmental and Forest vide letter no. J-13011/90/2006 IA-II (I) dated20/04/2007.	Complied
6.	Industry shall Managed Solid Waste generated from industrial activities as per Solid WasteManagement Rules-2016[Solid waste define in rule-3(46)].	Complied Please find attached Annexure.
7.	As per provisions of Rule 18 of Solid Waste Management Rules-2016, You are directed to make an arrangement in utilities to replace at least five percent (5%) of your solid fuel requirement by 'refused derived fuel'.	Company is in continuous discussion with Surat Municipal Corporation(SMC) to request 5% of the fuel in Utilities by RDF.
8.	Industry shall obtain NOC from CGWA as per order of Hon. National Green Tribunal for the withdrawal of ground water.	Not Applicable Not withdrawing Ground Water
9.	The applicant shall strictly observed and comply with all condition of Environment Clearance granted by Ministry of Environment and Forest, vide letter no. J-11011/4/1992 IA-II (I) Dated 04/07/2005.	Complied
10.	Applicant shall comply with the Standard Operating Procedure for acid reuse will be complied with judiciously.	Complied Company has already installed Acid Regeneration Plant for maximum captive consumption any leftover Acid is being handed over to Rule 9 authorized recycler
11.	Spent Acid after regeneration shall be reused in this.	Complied Company has already installed Acid Regeneration Plant for maximum captive consumption any leftover Acid is being handed over to Rule 9 authorized recycler
3. CONDITION UNDER WATER ACT:		
3.1	Source of Water-Bore well	Source of Water – Surface water
3.2	The quantity of fresh water consumption for industrial purpose shall not exceed 93966 Kl/Day.	Complied.
3.3	The quantity of fresh water consumption for Domestic purpose shall not exceed 2711 KL/Day.	
3.4	The quantity of industrial effluent to be generated from the manufacturing process and other ancillary industrial operations shall not exceed 19672 KL/Day. However, discharge shall be within the concerned quantity mentioned in consent of the whole plant.	Complied
3.5	The quantity of Domestic wastewater (Sewage) shall not exceed 1173 KL/Day.	Complied

3.6	<p>(A) The applicant shall provide adequate effluent treatment system in order to achieve the quality of the treated effluent as per GPCB norms mentioned below. (HBI & HRC Plant) :-</p> <table border="1"> <thead> <tr> <th>Parameters</th> <th>GPCB Norms</th> </tr> </thead> <tbody> <tr><td>PH</td><td>6.5 to 8.5</td></tr> <tr><td>Temperature</td><td>40° C</td></tr> <tr><td>Colour (pt.co.scale) in units</td><td>100 units</td></tr> <tr><td>Suspended solids</td><td>100 mg/l</td></tr> <tr><td>Oil and grease</td><td>10 mg/l</td></tr> <tr><td>Phenolic compounds</td><td>1 mg/l</td></tr> <tr><td>Sulphides</td><td>2 mg/l</td></tr> <tr><td>Ammonical Nitrogen</td><td>50 mg/l</td></tr> <tr><td>Total Chromium</td><td>2 mg/l</td></tr> <tr><td>Hexavalent chromium</td><td>0.1 mg/l</td></tr> <tr><td>BOD (5 days at 200 C)</td><td>30 mg/l</td></tr> <tr><td>COD</td><td>100 mg/l</td></tr> <tr><td>Cyanides</td><td>0.2 mg/l</td></tr> <tr><td>Fluorides</td><td>1.5 mg/l</td></tr> <tr><td>Lead</td><td>0.1 mg/l</td></tr> <tr><td>Copper</td><td>2 mg/l</td></tr> <tr><td>Nickel</td><td>3 mg/l</td></tr> <tr><td>Zinc</td><td>5 mg/l</td></tr> </tbody> </table> <p>(B) CPP Plant: -</p> <table border="1"> <thead> <tr> <th>Parameters</th> <th>GPCB Norms</th> </tr> </thead> <tbody> <tr> <td colspan="2">Boiler Blow Down:-</td> </tr> <tr><td>Suspended Solids</td><td>100 mg/l</td></tr> <tr><td>Oil and grease</td><td>10 mg/l</td></tr> <tr><td>Total Copper</td><td>1.0 mg/l</td></tr> <tr><td>Total Iron</td><td>1.0 mg/l</td></tr> <tr> <td colspan="2">Cooling Water Blow Down:-</td> </tr> <tr><td>Free Available Chlorine</td><td>0.5 mg/l</td></tr> <tr><td>Zinc</td><td>1.0 mg/l</td></tr> <tr><td>Hexavalent Chromium</td><td>0.1 mg/l</td></tr> <tr><td>Total Chromium</td><td>0.2 mg/l</td></tr> <tr><td>Phosphate</td><td>5.0 mg/l</td></tr> <tr> <td colspan="2">Combined Effluent:-</td> </tr> <tr><td>pH</td><td>6.5 to 8.5</td></tr> <tr><td>Suspended Solids</td><td>100 mg/l</td></tr> <tr><td>Oil and Grease</td><td>10 mg/l</td></tr> <tr><td>Total Copper</td><td>3.0 mg/l</td></tr> <tr><td>Total Iron</td><td>1.0 mg/l</td></tr> <tr><td>Zinc</td><td>1.0 mg/l</td></tr> <tr><td>Hexavalent Chromium</td><td>0.1 mg/l</td></tr> <tr><td>Total Chromium</td><td>0.2 mg/l</td></tr> <tr><td>Phosphate</td><td>5.0 mg/l</td></tr> </tbody> </table>	Parameters	GPCB Norms	PH	6.5 to 8.5	Temperature	40° C	Colour (pt.co.scale) in units	100 units	Suspended solids	100 mg/l	Oil and grease	10 mg/l	Phenolic compounds	1 mg/l	Sulphides	2 mg/l	Ammonical Nitrogen	50 mg/l	Total Chromium	2 mg/l	Hexavalent chromium	0.1 mg/l	BOD (5 days at 200 C)	30 mg/l	COD	100 mg/l	Cyanides	0.2 mg/l	Fluorides	1.5 mg/l	Lead	0.1 mg/l	Copper	2 mg/l	Nickel	3 mg/l	Zinc	5 mg/l	Parameters	GPCB Norms	Boiler Blow Down:-		Suspended Solids	100 mg/l	Oil and grease	10 mg/l	Total Copper	1.0 mg/l	Total Iron	1.0 mg/l	Cooling Water Blow Down:-		Free Available Chlorine	0.5 mg/l	Zinc	1.0 mg/l	Hexavalent Chromium	0.1 mg/l	Total Chromium	0.2 mg/l	Phosphate	5.0 mg/l	Combined Effluent:-		pH	6.5 to 8.5	Suspended Solids	100 mg/l	Oil and Grease	10 mg/l	Total Copper	3.0 mg/l	Total Iron	1.0 mg/l	Zinc	1.0 mg/l	Hexavalent Chromium	0.1 mg/l	Total Chromium	0.2 mg/l	Phosphate	5.0 mg/l	Complied
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3.7	The final treated effluent conforming to the above standards shall be discharged in to Estuary Zone of river tapi through closed pipe through one outlet only.	Complied																															
3.8	Domestic Effluent @ 380 m ³ /day shall be disposed of through septic tank / soak pit system & @ 782 m ³ /day shall be treated separately to confirm to the following standard and utilized on land for plantation or gardening within the factory premises.	Complied																															
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4.1	The following shall be used as fuel.	Complied																															
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4.2	Applicant shall install & Operate air pollution control system in order to achieve norms prescribed below.	Complied																															

4.3	The flue gas emission through stack attached to boiler/ furnace/ heater shall conform to the following standards:-						Complied.		
	Stack No.	Stack attached to	Stack height in Meter	Air Pollution Control System	Parameter	Permissible Limit			
	(A) HRC Plant								
	1	Boiler of HRC Plant	30	--	Particulate Matter SO ₂ NO _x	50 mg/Nm ³ 100 ppm 50 ppm			
	2	Heat Recovery steam generator (HIRSG)-31 MW	60	Tall Chimney	Particulate Matter SO ₂ NO _x	10 mg/Nm ³ 10 ppm 80 ppm			
	3	Reheating furnace-1	88.5	--	Particulate Matter SO ₂ NO _x	100 mg/Nm ³ 40 ppm 125 ppm			
	4	Reheating furnace-2	88.5	--	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 40 ppm 125 ppm			
	5	Electric Arc Furnace 1 & 2	45	FES System 1 & 2 with bag filter	Particulate Matter	80 mg/Nm ³			
	6	Electric Arc Furnace 3	45	FES System with bag filter	Particulate Matter	80 mg/Nm ³			
	7	Electric Arc Furnace 4	45	FES System with bag filter	Particulate Matter	80 mg/Nm ³			
	8	Normalizing furnace	30	--	Particulate Matter SO ₂	80 mg/Nm ³ 40 ppm			
	(B) CRM Plant								
	1	Boiler No.1 & 2 of CRM	30	--	Particulate Matter SO ₂ NO _x	50 mg/Nm ³ 100 ppm 50 ppm			
	2	Batch Annealing Furnace (BAF)	20	--	Particulate Matter SO ₂ NO _x	50 mg/Nm ³ 100 ppm 50 ppm			
	3	Heat Recovery Steam generator (HR SG)- 25 MW Waste Heat Recovery Based Power Plant	60	--	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 50 ppm 190 ppm			
	4.4	There process emission through various stack / vent or reactor, process shall confirm to the following standards :-						Complied.	
		Stack No.	Stack attached to	Stack height in Meter	Air Pollution Control System	Parameter			Permissible Limit
(A) HBI Plant									
1		HBI Reformer cum Recuperator-1	30	Venturi Scrubber	Particulate Matter	50 mg/Nm ³			
2		Reformer cum Recuperator-2	30	Venturi Scrubber	Particulate Matter	50 mg/Nm ³			
3		Reformer cum Recuperator-3	30	Venturi Scrubber	Particulate Matter	50 mg/Nm ³			
4		Reformer cum Recuperator-4	40	Venturi Scrubber	Particulate Matter	50 mg/Nm ³			

5	Reformer cum Recuperator-5	40	Venturi Scrubber	Particulate Matter	50 mg/Nm ³
6	HBI Process Dust Collection system(PDCS)-1	20	Venturi Scrubber + Hydro Cyclone	Particulate Matter	40 mg/Nm ³
7	Process Dust Collection system-2	20	Venturi Scrubber + Hydro Cyclone	Particulate Matter	40 mg/Nm ³
8	Process Dust Collection system-3	20	Venturi Scrubber + Hydro Cyclone	Particulate Matter	40 mg/Nm ³
9	Process Dust Collection system-4	20	Venturi Scrubber + Hydro Cyclone	Particulate Matter	40 mg/Nm ³
10	Process Dust Collection system-5	25	Venturi Scrubber + Hydro Cyclone	Particulate Matter	40 mg/Nm ³
(B) Lime Plant					
1	Lime plant Kiln-1	45	Bag Filter	Particulate matter	150 mg/Nm ³
2	Lime plant Kiln-2	45	Bag Filter	Particulate matter	150 mg/Nm ³
3	Lime plant Kiln-3	45	Bag Filter	Particulate matter	150 mg/Nm ³
4	Lime plant Kiln-4	45	Bag Filter	Particulate matter	150 mg/Nm ³
(C) CRM Plant					
1	HCL Scrubber attached to pickling operation (Line-1)	25	HCL Scrubber	HCL	20 mg/Nm ³
2	HCL Scrubber attached to Pickling Operation (Line-2)	25	HCL Scrubber	HCL	20 mg/Nm ³
3	HCL fume Scrubber attached to Acid Regeneration Plant (ARP)	25	HCL Scrubber	HCL	20 mg/Nm ³
4	Fume Extraction system attached to cold Rolling Mill (Line-1)	30	FES System	SO ₂ NO _x	40 mg/Nm ³ 25 mg/Nm ³
5	Fume Extraction system attached to cold Rolling Mill (Line-2)	30	FES System	SO ₂ NO _x	40 mg/Nm ³ 25 mg/Nm ³
6	Gas scrubber attached to galvanizing operation (Line-1)	30	Gas Scrubber	SO ₂ NO _x	40 mg/Nm ³ 25 mg/Nm ³
7	Gas scrubber attached to galvanizing operation (Line-2)	20	Gas Scrubber	SO ₂ NO _x	40 mg/Nm ³ 25 mg/Nm ³
(D) Pickling Plant					

	1	Pickling Line	30	Water Scrubber	HCL	20 mg/Nm3	
4.5	Industry shall take adequate measures to control dusting due to storage transportation & handling Coal & Fly ash.						Complied
4.6	Industry shall comply with Coal handling guideline of the Board.						In-progress
4.7	Industry shall comply with fly ash notification 1999 as amendment from time to time.						Not Applicable No generation of Fly Ash
4.8	The concentration of the following parameters in the ambient air within the premises of the industry and a distance of from the source other than the stack. Vent shall not exceed the following levels.						Complied
	Parameters		Permissible Limit (Microgram/m3)				
			Annual	24 Hrs. Average			
		Particulate Matter – 10 (PM10)	60	100			
		Particulate Matter – 10 (PM2.5)	40	60			
		SO ₂	50	80			
		NO _x	40	80			
4.9	The applicant shall provide portholes, ladder, platform etc. at chimney(s) for monitoring the air emissions and the same shall be open for inspection to land for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-I, S-2, etc. and these shall be painted/displayed to facilitate identification.						Complied.
4.10	The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(A) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.						Complied
5	Authorization as per Hazardous and other waste (management and transboundary) Rule,2016Form-2 [See rule 6(2)]						
	Form of grant of authorization for occupier or operator handling hazardous waste						
5.1	Authorization order No. : 107719, Date of issue : 07/04/2020						Complied
5.2	M/s. ArcelorMittal Nippon Steel India Limited is hereby granted an authorization to operate facility for following Hazardous wastes on the premises situated at plot No. to 203-230, 245-264, 312-321, 27 Km, Surat - Hazira Road, Hazira 394 270, Dist. Surat.						Complied
	Sr. No.	Waste	Qty.	Schedule-I Process No	Facility		
	1	Chemical sludge from waste water treatment	2900 MT/Year	35.3	Collection, storage, transportation and disposal at GPCB approved TSDF site.		
	2	Used or Spent Oil	1443 KL/Year	5.1	Collection, storage, transportation and disposal by selling to register re-refiners.		
	3	Empty Barrels / containers / Liners / Contaminated with hazardous chemicals / Wastes	7265 Nos./Year	33.1	Collection, storage, transportation and disposal top authorized decontaminator.		
	4	Spent ion exchange resins containing metals	11,138 Nos./Year	35.2	Collection, Storage, Transportation and disposal at CHWIF		
	5	Zinc Dross	195 MT/Month	Schedule-IV (15)	Send to authorized recycler who has obtained authorization from rule-9 of Hazardous and other waste management and transboundary Rules,2016.		

5.3	The Authorization shall be valid up to 31-12-2024.	Complied
5.4	The authorization is subject to the conditions stated below and such other condition as may be specified in the rules from time to time under the Environment Protection Act -1986.	Complied
5.5	The authorization is granted to operate a facility for collection, storage, within factory premises transportation and ultimate disposal of Hazardous Waste as per condition 5.2 to the industry having valid CCA of this Board.	Complied
6	TERMS AND CONDITIONS OF AUTHORISATION	
6.1	The applicant shall comply with the provision of the Environment Protection Act, 1986 and the rules made there under.	Complied
6.2	The authorization shall be produced for inspection at the request of an officer authorized by the GPCB.	Complied
6.3	The persons authorize shall not rent, lend, sell, transfer or otherwise transport the HW without obtaining prior permission of the GPCB.	Complied
6.4	Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorization order by the persons authorized shall constitute a breach of this authorization	Complied
6.5	The person authorized shall comply with the provision outlined in the central pollution control board guidelines on "Implementing and liabilities for environmental damages due to handling and disposal of handling and disposal of hazardous waste and penalty"	Complied
6.6	The person authorized shall comply with the provisions outlined in the central pollution control board guidelines on "implementing liabilities for environmental damages due to handling and disposal of hazardous waste and penalty."	Complied
6.6	It is the duty of the authorized person to take prior permission of the GPCB to close down the facility.	Complied
6.8	An application for renewal of an authorization shall be made as laid down in rule 6(2) under Hazardous and Other Waste management and transboundary Rules, 2016.	Complied
6.9	The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operations.	Complied
6.10	The record of consumption and fare of the imported hazardous and other waste shall be maintained.	Complied
6.11	The hazardous and other wastes which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other waste shall be treated and disposal of as per specific condition of authorization.	Complied
6.12	The importer or exporter shall bear the cost of import or export and mitigation of damages if any.	Complied
6.13	Any other condition for compliance as per the guidelines issued by the ministry of environment, Forest and Climate Change or Central Pollution Control Board from time to time.	Complied
6.14	The waste generator shall be totally responsible for (i.e. Collection, Storage, Transportation, and Ultimate Disposal) the wastes generated.	Complied
6.15	Records of waste generation, its management and annual return shall be submitted to Gujarat Pollution Control Board in Form-4 by 30 th day of every year for the proceeding period April to March.	Complied
6.16	In case of any accident, details of the same shall be submitted on form-11 to Gujarat pollution Control Board.	Complied
6.17	As per "Public Liability Insurance Act-1991" Company shall get insurance policy, If applicable.	Complied
6.18	Empty Drums and container of toxic and hazard material shall be treated as per guidelines published for "management & handling of discarded container". Records of the same shall be maintained forwarded to Gujarat Pollution Control Board.	Complied
6.19	In case of transport of hazardous waste to a facility for(i.e. treatment, Storage and disposal) existing in a state other that the state where hazardous waste wastes are generated , the occupier shall obtain 'No Objection Certificate' from the state pollution control board committee of the concerned state of union territory administration where the facility exists.	Complied
6.20	Unit Shall take all concrete measures to show sensible result in waste generation, reduction, avoidance, reuse and recycle. Actions taken in this regard shall be submitted within three months and also along with form-4.	Complied
6.21	Industry shall have to display the relevant information with regard to hazardous waste as indicated in the Supreme court's order in W.P.No 657 of 1995 dated 14 th October 2003.	Complied
6.22	Industry shall have to display on-line data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including waste and air emissions and solid hazardous wastes generated within the factory premises.	Complied

7	Specific Condition	
7.1	The Authorized actual user of hazardous and other waste shall maintain records of hazardous and other wastes purchased in a passbook issued by the state pollution control board along with the authorization.	Complied
7.2	Handling over the hazardous and other waste to the authorized actual user shall be only after making the entry in the passbook of the actual user.	Complied
7.3	In case of renewal of authorization, a self-certified compliance report in respect of effluent, emission standard and the condition specified in the authorization for hazardous and other waste shall be submitted to SPCB.	Complied
7.4	The occupier of the facility shall comply the standard operating procedure / guidelines published by MOEF&CC or CPCB or GPCB from time to time.	Complied
7.5	Unit shall comply provision of E-Waste Management Rules-2016.	Complied
7.6	The Disposal of Hazardous waste shall be carried out as per the waste management hierarchy.	Complied
7.7	The occupier of facilities shall not store the hazardous waste and other waste for a period not exceeding ninety days. Prior permission of the board shall be obtained for extension of the storage period.	Complied
7.8	The occupier shall maintain the records of generation, sale, storage, transport, recycling, co-processing and disposal of hazardous waste and make available during inspection.	Complied
7.9	The transportation of the hazardous waste shall be carries out in GPS mounted dedicated vehicles.	Complied
8	General Condition	
8.1	Any change in personnel, equipment or working conditions as mentioned in the in the consent should be intimated to this board	Complied
8.2	Applicant shall also comply with the general conditions as in annexure 1	Complied
8.3	Whenever due to accident or other unforeseen act or ever, such emissions occur or is apprehended to occur in excess of standard laid down such information shall be forthwith reported to board, concerned police station, office of directorate of health services, department of explosives, Inspectorate of factories and local body.	Complied
8.4	In case of failure of pollution control equipment, the production process connected to it shall be stopped. Remedial actions/measures shall be implemented immediately to bring entire situation normal.	Complied
8.5	The Environment Management Unit/Shell be setup to ensure implementation on and monitoring of environmental safe guards and other conditions stipulated by statutory authorities. The environmental management Cell/Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issues. These cells/units also coordinate the exercise of environmental audit and preparation of environment statements.	Complied
8.6	The Environmental Audit Shall be carried out yearly and the environmental statements pertaining to the previous year shall be submitting to this state board latest by 30 th September every year	Complied

COMPLIANCE REPORT OF CCA**Name: M/s. ArcelorMittal Nippon Steel India Limited (Conarc Division),****Plot No.191 to 195,197,198,418,421,422,424 to 428, 27 Km, Surat - Hazira Road, Hazira 394 270, Dist. Surat**

SR. NO.	CONDITION			STATUS	
1	CC&A Order No.AWH-108150, dated 20-05-2020.			---	
2	The consents shall be valid up to 31/12/2024 for the use of outlet for the discharge of treated effluent & air emission and to operation of industrial plant for manufacturing of the following items/products:			Complied.	
	Sr. No.	Product	Products		Quantity (MT/month)
	1.	Pellet plant	Pellets		4000000
	2.	HBI/DRI plant (1 no)	HBI/DRI		1850000
			Iron Ore Fines		268000
	3.	Corex plant (2 nos.)	Hot Metal		1700000
			Granulated Slag		510000
			Granulated pigiron		68292
	4.	Blast furnace & sinter plant (2 nos. replace with 1. No)	Hot Metal		2040000
			Granulated Slag		612000
	5.	Steel melt shop (4 EAF & 4.1 F)	Liquid Steel		5000000
			Slag		1000000
			Iron fines		62400
	6.	Caster & shop (4 slab & 2 billet caster)	Slabs from SlabCaster		4900000
			Billets from Billetcaster	2370000	
	7.	CSP& Hot Rolling Mill & long products Mill	Hot Rolled Coil	3500000	
			Mill Scale	120000	
			Rebar	1599996	
			Wire Rod	699996	
	8.	Lime plant (3 nos.)	Lime / Do-lime	450000	
			Lime Stone / Dolomite chips	110000	
			Lime fines	30000	
			Off Grade Lime / Dolime	10000	
2.1	SUBJECT TO SPECIFIC CONDITION				
1	Industry shall obtain NOC from CGWA as per order of Hon. National Green Tribunal for the withdrawal of ground water and you shall strictly comply with condition of NOC granted from CGWA.			Not Applicable Not withdrawing Ground Water	
2	Industry shall Manage Solid Waste generated from industrial activities as per Solid Waste Management Rules-2016[Solid waste define in rule-3(46)]			Complied Please find attached Annexure.	
3	As per provisions of Rule 18 of Solid Waste Management Rules-2016, You are directed to make an arrangement in Utilities to replace at least five percent (5%) of your solid fuel requirement 'refused derived fuel'.			Company is in continuous discussion with Surat Municipal Corporation(SMC) to request 5% of the fuel in Utilities by RDF.	
4	Industry shall provide dedicated storage facility for fly ash			Not Applicable Not generating Fly Ash during Manufacturing Activities.	
5	Industry shall Comply with fly ash notification 1999 as amended from time to time.			Not Applicable Not generating Fly Ash during Manufacturing Activities.	

3.	CONDITION UNDER WATER ACT:																																													
3.1	Source of Water-Bore well	Source of Water – Surface water																																												
3.2	The quantity of fresh water consumption for industrial purpose shall not exceed 118911 KI/Day.	Complied.																																												
3.3	The quantity of fresh water consumption for Domestic purpose shall not exceed 1800 KL/Day.	Complied.																																												
3.4	The quantity of industrial effluent to be generated from the manufacturing process and other ancillary industrial operations shall not exceed 27405 KL/Day .However, discharge shall be within the concerned quantity mentioned in consent of the whole plant.	Complied																																												
3.5	The quantity of Domestic wastewater (Sewage) shall not exceed 1500 KL/Day.	Complied																																												
3.6	(A) The applicant shall provide adequate effluent treatment system in order to achieve the quality of the treated effluent as per GPCB norms mentioned below.	Complied																																												
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3.7	The Final Treated effluent confirming to the above standards shall be reused in the plant and shall be utilized on own land for gardening and plantation purposes and shall not discharged treated wastewater in to surrounding environment.	Complied																																												
3.8	Domestic Effluent @ 380 m ³ /day shall be disposed of through septic tank / soak pit system & @ 782m ³ /day shall be treated separately to confirm to the following standard and utilized on land for plantation or gardening within the factory premises.	Complied																																												
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4.	CONDITIONS UNDER AIR ACT:					
4.1	The following shall be used as fuel.					Complied
	Sr. No.	Utility	Fuel	Total Quantity		
1	HBI/DRI Plant	BG (NM3/Month)	292,72,700 Nm ³ /Month			
				Reducing gas (corex off gas after CO ₂ absorption)	2470,00,000 Nm ³ /Month	
2	COREX Plant	Natural Gas	14,50,000 Nm ³ /Month			
3	SMS Plant, caster shop & CSP Plant & long product mill	Natural Gas	10,00,0000 Nm ³ /Month			
4	Blast Furnace Plant	BF gas	3,01,876 Nm ³ /Hr			
5	Lime Plant	Natural Gas	1,950,000 Nm ³ /Month			
6	Pellet Plant	Natural Gas	4,20,000 Nm ³ /Month			
4.2	The applicant shall install & operate comprehensive adequate air pollution controlsystem achieve prescribed norms.					Complied
4.3	The flue gas emission through stack attached to furnace conform to the following standards.					Complied.
	Stack No.	Stack attached to	Stack height in Meter	Air Pollution Control System	Parameter	Permissible Limit
(A) Pellet Plant						
1	Indurating Grinding	35	ESP/ Bag Filter	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm	
(B) Blast Furnace						
2	Stove and Fume Extraction system	75	Fume Extraction System (FES) with Bag Filter / Dust Suppression system	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm	

3	Stock House	45	De-Dusting system with Bag Filter	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
4	Turbo blower/ Boiler 1 & 2	100	---	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
5	Slag granulation plant	70	---	# Air Vents to slag granulation vessel only during tapping.	
6	Hot metal Transfer/Fumes Exhaust	45	FES System with Bag Filter	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
7	Sinter Plant process stack	60	ESP	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
8	Sinter Plant process stack	30	ESP	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
(C) SMS Plant					
9	FES (Fume Extraction System)	45	Bag Filter	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
10	FES (Fume Extraction System)	45	Bag Filter	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
11	FES (Fume Extraction System)	45	Bag Filter	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
12	FES (Fume Extraction System)	45	Bag Filter	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
(D) Rebar & Wire Road Mill					
13	RHF (Reheating Furnace)	60	---	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
14	RHF (Reheating Furnace)	60	---	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
15	RHF (Reheating Furnace)	60	---	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
(E) CSP Plant					

	16 to 18	Tunnel Furnace-1 (3Nos.)	60	---	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm	
	19 to 21	Tunnel Furnace-2 (3Nos.)	60	---	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm	
	22 to 24	Tunnel Furnace-3 (3Nos.)	60	---	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm	
4.4	There process emission through various stack / vent or reactor, process shall confirm to the following standards.						Complied.
	Stack No.	Stack attached to	Stack height in Meter	Air Pollution Control System	Parameter	Permissible Limit	
	(A) Pellet Plant						
	1	Feed End	33	ESP/BF	Particulate Matter	150 mg/Nm ³	
	2	Discharge End	30	ESP/BF	Particulate Matter	150 mg/Nm ³	
	3	Hearth Layer Separation	20	ESP/BF	Particulate Matter	150 mg/Nm ³	
	4	Additive Grinding	32	ESP/BF	Particulate Matter	150 mg/Nm ³	
	(B) Blast Furnace						
	5	Gas flare	50	---	# Only flaring excess BF gas		
	6	Pulverized Coal injection	50	De-dusting System with BF	Particulate Matter	150 mg/Nm ³	
	7	De-dusting for mixer	50	De-dusting System with BF	Particulate Matter	150 mg/Nm ³	
	(C) HBI/DRI Plant						
	8	Recuperator	40	Ventury Scrubber	Particulate Matter	150 mg/Nm ³	
	9	Process dust collection system (PDCS)	20	Dust collection Scrubber	Particulate Matter	150 mg/Nm ³	
	10	Junction House-23	30	Dust collection Scrubber	Particulate Matter	150 mg/Nm ³	
	11	Junction house-24	30	Dust collection Scrubber	Particulate Matter	150 mg/Nm ³	

(D) COREX Plant					
12	FES of Cast House	30	Bag Filter	Particulate Matter	150 mg/Nm ³
13	FES of Cast House	30	Bag Filter	Particulate Matter	150 mg/Nm ³
14	Gas Flare	30	---	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
15	Gas Flare	30	---	Particulate Matter SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
16	FES Stock house oxide line	30	BF with De-dusting System	Particulate Matter	150 mg/Nm ³
17	FES Stock house oxide line	30	BF with De-dusting System	Particulate Matter	150 mg/Nm ³
18	FES Stock house coal line	30	BF with De-dusting System	Particulate Matter	150 mg/Nm ³
19	FES Stock house coal line	30	BF with De-dusting System	Particulate Matter	150 mg/Nm ³
20	De-Dusting Coal drying	30	BF with De-dusting System	Particulate Matter	150 mg/Nm ³
21	De-Dusting Coal drying	30	BF with De-dusting System	Particulate Matter	150 mg/Nm ³
22	De-Dusting Coal drying	20	BF with De-dusting System	Particulate Matter	150 mg/Nm ³
23	De-Dusting Coal transportation	30	BF with De-dusting System	Particulate Matter	150 mg/Nm ³
24	De-Dusting Coal transportation	18	BF with De-dusting System	Particulate Matter	150 mg/Nm ³
25	De-Dusting Coal Blending	18	BF with De-dusting System	Particulate Matter	150 mg/Nm ³
(E) Lime Plant					
26	Lime/Dolime Plant	45	Bag Filter	Particulate Matter	150 mg/Nm ³
27	Lime/Dolime Plant	45	Bag Filter	Particulate Matter	150 mg/Nm ³
28	Lime/Dolime Plant	45	Bag Filter	Particulate Matter	150 mg/Nm ³

4.5	All bag filter shall be designed with adequate filtration rate.	Complied.																									
4.6	Electronic precipitator shall be designed in such a way that they shall be capable of removal of particulate loading in the flue gas. The treated flue gas shall meet the GPCB/CPCB/MOEF specified norms of discharge.	Complied.																									
4.7	All cyclone separator shall be adequately designed for particulate specific diameters and removal efficiency.	Complied.																									
4.8	The concentration of the following parameters in the ambient air within the premises of the industry and a distance of from the source other than the stack. Vent shall not exceed the following levels.	Complied																									
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6.	AUTHORIZATION AS PER HAZARDOUS AND OTHER WASTE (MANAGEMENT AND TRANSBOUNDARY) RULES, 2016 Form-2 [See rule 6 (2)]																										
6.1	Number of authorization: 108150, Date of issue: 20/05/2020	Complied																									
6.2	M/s. ArcelorMittal Nippon Steel India Limited (Conarc Division), is hereby granted an authorization to operate facility for following Hazardous wastes on the premises situated at plot No.191 to 195,197,198,418,421,422,424 to 428, 27 Km, Surat - Hazira Road, Hazira 394 270, Dist. Surat.	Complied																									
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6.3	The authorization shall be valid up to 31-12-2024 .	Complied
6.4	The authorization is subject to the conditions stated below and such other condition as may be specified in the rules from time to time under the Environment Protection Act – 1986 and Haz. Waste (M&H and TM) Rules 2008.	Complied
6.5	The authorization is granted to operate a facility for collection, storage, within factory premises, transportation and ultimate disposal of hazardous waste as per condition no 6.2 to the industry having valid CCA of this board.	Complied
7	TERMS AND CONDITIONS OF AUTHORISATION	
7.1	The applicant shall comply with the provision of the Environment Protection Act, 1986 and the rules made there under.	Complied
7.2	The authorization shall be produced for inspection at the request of an officer authorized by the GPCB.	Complied
7.3	The persons authorize shall not rent, lend, sell, transfer or otherwise transport the HW without obtaining prior permission of the GPCB.	Complied
7.4	Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorization order by the persons authorized shall constitute a breach of this authorization	Complied
7.5	The person authorized shall comply with the provision outlined in the central pollution control board guidelines on “Implementing and liabilities for environmental damages due to handling and disposal of handling and disposal of hazardous waste and penalty”	Complied
7.6	The person authorized shall comply with the provisions outlined in the central pollution control board guidelines on “implementing liabilities for environmental damages due to handling and disposal of hazardous waste and penalty.”	Complied
7.7	It is the duty of the authorized person to take prior permission of the GPCB to close down the facility.	Complied
7.8	An application for renewal of an authorization shall be made as laid down in rule 6(2) under Hazardous and Other Waste management and transboundary Rules, 2016.	Complied
7.9	The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operations.	Complied
7.10	The record of consumption and fare of the imported hazardous and other waste shall be maintained.	Complied
7.11	The hazardous and other wastes which gets generated during recycling or reuse or recovery or pre- processing or utilization of imported hazardous or other waste shall be treated and disposal of as per specific condition of authorization.	Complied
7.12	The importer or exporter shall bear the cost of import or export and mitigation of damages if any.	Complied
7.13	Any other condition for compliance as per the guidelines issued by the ministry of environment, Forest and Climate Change or Central Pollution Control Board from time to time.	Complied
7.14	The waste generator shall be totally responsible for (i.e. Collection, Storage, Transportation, and Ultimate Disposal) the wastes generated.	Complied
7.15	Records of waste generation, its management and annual return shall be submitted to Gujarat Pollution Control Board in Form-4 by 30 th day of every year for the proceeding period April to March.	Complied
7.16	In case of any accident, details of the same shall be submitted on form-11 to Gujarat pollution Control Board.	Complied
7.17	As per “Public Liability Insurance Act-1991” Company shall get insurance policy, If applicable.	Complied
7.18	Empty Drums and container of toxic and hazard material shall be treated as per guidelines published for “management & handling of discarded container”. Records of the same shall be maintained forwarded to Gujarat Pollution Control Board.	Complied
7.19	In case of transport of hazardous waste to a facility for (i.e. treatment, Storage and disposal) existing in a state other than the state where hazardous waste wastes are generated	Complied

	, the occupier shall obtain 'No Objection Certificate' from the state pollution control board committee of the concerned state of union territory administration where the facility exists.	
7.20	Unit Shall take all concrete measures to show sensible result in waste generation, reduction, avoidance, reuse and recycle. Actions taken in this regard shall be submitted within three months and also along with form-4.	Complied
7.21	Industry shall have to display the relevant information with regard to hazardous waste as indicated in the Supreme court's order in W.P.No 657 of 1995 dated 14 th October 2003.	Complied
7.22	Industry shall have to display on-line data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including waste and air emissions and solid hazardous wastes generated within the factory premises.	Complied
8	General Condition	
8.1	Any change in personnel, equipment or working conditions as mentioned in the in the consent should be intimated to this board	Complied
8.2	Applicant shall also comply with the general conditions as in annexure 1	Complied
8.3	Whenever due to accident or other unforeseen act or ever, such emissions occur or is apprehended to occur in excess of standard laid down such information shall be forthwith reported to board, concerned police station, office of directorate of health services, department of explosives, Inspectorate of factories and local body.	Complied
8.4	In case of failure of pollution control equipment, the production process connected to it shall be stopped. Remedial actions/measures shall be implemented immediately to bring entire situation normal.	Complied
8.5	The Environment Management Unit/Shell be setup to ensure implementation on and monitoring of environmental safe guards and other conditions stipulated by statutory authorities. The environmental management Cell/Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issues. These cells/units also coordinate the exercise of environmental audit and preparation of environment statements.	Complied
8.6	The Environmental Audit Shall be carried out yearly and the environmental statements pertaining to the previous year shall be submitting to this state board latest by 30 th September every year	Complied
8.7	The Board reserves the right to review and/or revoke the consent and/or make variations in the condition, which the board deems, fit in accordance with section 27 of the Act.	Complied
8.8	In case of change of ownership/management the name and address of the new owners/partners/directors/proprietor should immediately be intimated to the board.	Complied
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9	Specific Condition	
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9.2	Handling over the hazardous and other waste to the authorized actual user shall be only after making the entry in the passbook of the actual user.	Complied
9.3	In case of renewal of authorization, a self-certified compliance report in respect of effluent, emission standard and the condition specified in the authorization for hazardous and other waste shall be submitted to SPCB.	Complied
9.4	The occupier of the facility shall comply the standard operating procedure / guidelines published by MOEF&CC or CPCB or GPCB from time to time.	Complied
9.5	Unit shall comply provision of E-Waste Management Rules-2016.	Complied

9.6	The Disposal of Hazardous waste shall be carried out as per the waste management hierarchy.	Complied
9.7	The occupier of facilities shall not store the hazardous waste and other waste for a period not exceeding ninety days. Prior permission of the board shall be obtained for extension of the storage period.	Complied
9.8	The occupier shall maintain the records of generation, sale, storage, transport, recycling, co-processing and disposal of hazardous waste and make available during inspection.	Complied
9.9	The transportation of the hazardous waste shall be carries out in GPS mounted dedicated vehicles.	Complied

COMPLIANCE REPORT OF CCA

Name: M/s. ArcelorMittal Nippon Steel India Limited (Pipe Mill Division)
Plot no: - 203-230,245-264,312-321, @27 Km Surat – Hazira Road,Post Hazira – 394270,
Tal: Chorasi, Dist: Surat.

Sr. NO.	CONDITION	STATUS												
1.	Consent Order No. AWH – 107720, Date of issue: 07/04/2020	---												
2.	The consents shall be valid up to 31/12/2024 for the use of outlet for the discharge of treated effluent& air emission and to operation of industrial plant for manufacturing of the following items/products: <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Products</th> <th>Total Quantity In MT/Month</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>H-Saw Pipes</td> <td>25000</td> </tr> <tr> <td>2</td> <td>L-Saw Pipes</td> <td>27500</td> </tr> <tr> <td>3</td> <td>Coating Plant</td> <td>40000</td> </tr> </tbody> </table>	Sr. No.	Products	Total Quantity In MT/Month	1	H-Saw Pipes	25000	2	L-Saw Pipes	27500	3	Coating Plant	40000	Complied.
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SUBJECT TO SPECIFIC CONDITION														
1.	Industry shall Manage Solid Waste generated from industrial activities as per Solid Waste Management Rules-2016[Solid waste define in rule-3(46)]	Complied Please find attached Annexure.												
2.	As per provisions of Rule 18 of Solid Waste Management Rules-2016, You are directed to make an arrangement in utilities to replace at least five percent (5%) of your solid fuel requirement 'refused derived fuel'.	Company is in continuous discussion with Surat Municipal Corporation(SMC) to request 5% of the fuel in Utilities by RDF.												
3.	Industry shall obtain NOC from CGWA as per order of Hon. National Green Tribunal for the withdrawal of ground water.	Not Applicable Not withdrawing Ground Water												
4.	Industry shall provide dedicated storage facility for fly ash	Not Applicable Not generating Fly Ash during Manufacturing Activities.												
5.	Industry shall comply with fly ash notification 1999 as amended from time to time	Not Applicable Not generating Fly Ash during Manufacturing Activities.												
6.	Please submit justification with disposal details of oily waste.	Complied Details submitted in Environment Audit Report												
7.	Industry shall provide STP since domestic waste water generation and submit documentary proof to the board within 3 month and inform Head office and Regional office.	At present we are disposing the sewage through Sock pit / Septic tank. Company is under discussion for finalization of location & technology of STP. Once it is finalized we will intimate the board.												
8.	Submit Environment Audit Report for the year 2018-2019 with compliance	Complied												
9.	Please submit the justification with disposal details Oily waste for the last '3' years	Complied Details submitted in Environment Audit Report												

3.	CONDITION UNDER WATER ACT:																																							
3.1	Source of Water-Bore well	Source of Water – Surface water																																						
3.2	The quantity of fresh water consumption for industrial purpose shall not exceed 2514 KL/Day.	Complied.																																						
3.3	The quantity of fresh water consumption for Domestic purpose shall not exceed 30 KL/Day.	Complied.																																						
3.4	The quantity of industrial effluent to be generated from the manufacturing process and other ancillary industrial operations shall not exceed 1100 KL/Day.	Complied																																						
3.5	The quantity of Domestic wastewater (Sewage) shall not exceed 20 KL/Day.	Complied																																						
3.6	The applicant shall provide adequate effluent treatment system in order to achieve the quality of the treated effluent as per GPCB norms mentioned below.	Complied.																																						
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3.7	The final treated effluent shall conform to the above standards shall be recycled / re-circulated and in case of remaining to be utilized for irrigation / plantation within premises thus in no case effluent shall be discharge into Environment.																																							
3.8	Domestic effluent shall be disposed of through septic tank / soak pit system.																																							
4.	CONDITIONS UNDER AIR ACT:																																							
4.1	The following shall be used as fuel.	Complied																																						
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4.2	Applicant shall install & Operate air pollution control system in order to achieve norms prescribed below.	Complied																																						

4.3	The flue gas emission through stack attached to boiler/ furnace/ heater shall conform to the following standards: -					Complied	
	Stack No.	Stack attached to	Stack height in Meter	Air Pollution Control System	Parameter		Permissible Limit
	1	De-Dusting Blower-1	30	Bag Filter	Particulate Matter		150 mg/Nm ³
	2	De-Dusting Blower-2	30	Bag Filter	Particulate Matter		150 mg/Nm ³
	3	De-Dusting Blower-3	30	Bag Filter	Particulate Matter		150 mg/Nm ³
4	De-Dusting Blower-4	30	Bag Filter	Particulate Matter	150 mg/Nm ³		
4.4	There shall be no process emission from the manufacturing process as well as any other ancillary process.					Complied	
4.5	The concentration of the following parameters in the ambient air within the premises of the industry and a distance of from the source other than the stack. Vent shall not exceed the following levels.					Complied	
	Parameters		Permissible Limit (Microgram/m ³)				
	Particulate Matter – 10 (PM10)		100				
	Particulate Matter – 10 (PM2.5)		60				
	SO ₂		80				
NO _x		80					
4.6	The applicant shall provide portholes, ladder, platform etc. at chimney(s) for monitoring the air emissions and the same shall be open for inspection to land for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/displayed to facilitate identification.					Complied.	
4.7	The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(A) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.					Complied	
5	Authorization as per Hazardous and other waste (management and transboundary) Rule,2016 Form-2 [See rule 6(2)]						
	Form of grant of authorization for occupier or operator handling hazardous waste						
5.1	Authorization order No. : 107720, Date of issue : 07/04/2020					Complied	

5.2	M/s. ArcelorMittal Nippon Steel India Limited is hereby granted an authorization to operate facility for following Hazardous wastes on the premises situated at plot No. to 203-230, 245-264, 312-321, 27 Km, Surat - Hazira Road, Hazira 394 270, Dist. Surat.	Complied																									
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8.3	In case of renewal of authorization, a self-certified compliance report in respect of effluent, emission standard and the condition specified in the authorization for hazardous and other waste shall be submitted to SPCB.	Complied
8.4	The occupier of the facility shall comply the standard operating procedure / guidelines published by MOEF&CC or CPCB or GPCB from time to time.	Complied
8.5	Unit shall comply provision of E-Waste Management Rules-2016.	Complied
8.6	The Disposal of Hazardous waste shall be carried out as per the waste management hierarchy.	Complied
8.7	The occupier of facilities shall not store the hazardous waste and other waste for a period not exceeding ninety days. Prior permission of the board shall be obtained for extension of the storage period.	Complied
8.8	The occupier shall maintain the records of generation, sale, storage, transport, recycling, co-processing and disposal of hazardous waste and make available during inspection.	Complied
8.9	The transportation of the hazardous waste shall be carries out in GPS mounted dedicated vehicles.	Complied

COMPLIANCE REPORT OF CCA

**Name: M/s. ArcelorMittal Nippon Steel India Limited(Plate Mill Division)
Surat – Hazira Road, Post Hazira – 394270, Tal: Chorasi, Dist: Surat.**

Sr. No.	CONDITION	STATUS																																								
1.	Consent Order No.: AWH-107721, Date of Issue: 07/04/2020.	---																																								
2.	The consents shall be valid up to 31/12/2024 for the use of outlet for the discharge of treated effluent & air emission and to operation of industrial plant for manufacturing of the following items/products: <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Product</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Hot Rolled Plate</td> <td>1,25,000 MT/Month</td> </tr> <tr> <td>2</td> <td>Mill Scale</td> <td>3000 MT/Month</td> </tr> </tbody> </table>	Sr. No.	Product	Quantity	1	Hot Rolled Plate	1,25,000 MT/Month	2	Mill Scale	3000 MT/Month	Complied.																															
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	SUBJECT TO SPECIFIC CONDITION																																									
	1. The unit shall maintain zero liquid discharge of waste water. The evaporator shall be adequate to maintain zero liquid discharge.	Not Applicable Company has been granted the permission to discharge the Waste water to Estuary Zone of Tapi through closed pipe line (Refer Page No.2 Condition No. 3.6 of CCA Order)																																								
	2. Industry shall Managed Solid Waste generated from industrial activities as per Solid Waste Management Rules-2016[Solid waste define in rule-3(46)].	Complied Please find attached Annexure.																																								
	3. As per provisions of Rule 18 of Solid Waste Management Rules-2016, You are directed to make an arrangement in utilities to replace at least five percent (5%) of your solid fuel requirement 'Refined Derived Fuel'.	Company is in continuous discussion with Surat Municipal Corporation(SMC) to request 5% of the fuel in Utilities by RDF.																																								
3.	CONDITION UNDER WATER ACT:																																									
3.1	Source of Water – Tapi River	Complied																																								
3.2	The quantity of fresh water consumption for industrial purpose shall not exceed 10000 Kl/Day.	Complied																																								
3.3	The quantity of fresh water consumption for Domestic purpose shall not exceed 30 KL/Day.	Complied																																								
3.4	The quantity of industrial effluent to be generated from the manufacturing process and other ancillary industrial operations shall not exceed 1920KL/Day.	Complied																																								
3.5	The applicant shall operate effluent treatment system efficiently so that treated effluent from industrial unit shall conform to the norms mentioned below. <table border="1"> <thead> <tr> <th>PARAMETERS</th> <th>GPCB NORMS</th> </tr> </thead> <tbody> <tr> <td>pH</td> <td>6.5 to 8.5</td> </tr> <tr> <td>Temperature</td> <td>40⁰ C</td> </tr> <tr> <td>Colour (pt.co.scale)</td> <td>100 mg/l</td> </tr> <tr> <td>Suspended Solids</td> <td>100 mg/l</td> </tr> <tr> <td>Oil and Grease</td> <td>10 mg/l</td> </tr> <tr> <td>Phenolic compound sulphides</td> <td>1 mg/l</td> </tr> <tr> <td>Ammonical Nitrogen</td> <td>2 mg/l</td> </tr> <tr> <td>Ammonical Nitrogen</td> <td>50 mg/l</td> </tr> <tr> <td>Total chromium</td> <td>2 mg/l</td> </tr> <tr> <td>Hexavalent chromium</td> <td>0.1 mg/l</td> </tr> <tr> <td>BOD (3 days at 25⁰C)</td> <td>30 mg/l</td> </tr> <tr> <td>COD</td> <td>100 mg/l</td> </tr> <tr> <td>Cyanide</td> <td>0.2 mg/l</td> </tr> <tr> <td>Fluorides</td> <td>1.5 mg/l</td> </tr> <tr> <td>Lead</td> <td>0.1 mg/l</td> </tr> <tr> <td>Copper</td> <td>2 mg/l</td> </tr> <tr> <td>Nickel</td> <td>2 mg/l</td> </tr> <tr> <td>Zinc</td> <td>5 mg/l</td> </tr> <tr> <td>Iron</td> <td>3 mg/l</td> </tr> </tbody> </table>	PARAMETERS	GPCB NORMS	pH	6.5 to 8.5	Temperature	40 ⁰ C	Colour (pt.co.scale)	100 mg/l	Suspended Solids	100 mg/l	Oil and Grease	10 mg/l	Phenolic compound sulphides	1 mg/l	Ammonical Nitrogen	2 mg/l	Ammonical Nitrogen	50 mg/l	Total chromium	2 mg/l	Hexavalent chromium	0.1 mg/l	BOD (3 days at 25 ⁰ C)	30 mg/l	COD	100 mg/l	Cyanide	0.2 mg/l	Fluorides	1.5 mg/l	Lead	0.1 mg/l	Copper	2 mg/l	Nickel	2 mg/l	Zinc	5 mg/l	Iron	3 mg/l	Complied
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3.6	The final treated effluent shall conform to the above standards shall be Recycled/recirculated to maximum extent & rest shall be discharged into Estuary Zone of river Tapi/through closed pipeline					Complied
3.5	The quantity of Domestic wastewater (Sewage) shall not exceed 20 KL/Day.					Complied
3.3.3	Domestic waste water shall be disposed through Septic/Soak pit system.					Complied
4.	CONDITIONS UNDER AIR ACT:					
4.1.	The following shall be used as fuel.					Complied
	Sr. No.	Fuel	Total Quantity			
	1	Gas fired Reheating furnace Natural gas/corex gas Or NGL/Naphtha	19,000 Nm ³ /Hr 15 MT/Hr			
	2	Heat treatment furnace Natural Gas	7,694 Nm ³ /Hr			
4.2.	The applicant shall install & operate comprehensive adequate air pollution control system achieve prescribed norms.					Complied
4.3	The flue gas emission through stack attached to Furnace shall conform to the following standards.					Complied.
	Sr. No.	Stack attached to	Stack Height in meter	APCM	Parameters	Permissible limit
	1.	RHF-1&2 (plate mill)	106	-	PM SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
	2.	Normalizing furnace (2 nos.) (plate mill)	30	-	PM SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
	3.	Austinising furnace (2 nos.) (plate mill)	30	-	PM SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
	4.	Tempering furnace (plate mill)	30	-	PM SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
	5.	Cold leveler Dedusting system (plate mill)	30	Bag filter	PM SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
4.4	There shall be no process emission, however the fumes generated shall be adequately dispersed by the shop floor ventilation system.					Complied.

4.5	The concentration of the following parameters in the ambient air within the premises of the industry and a distance of from the source other than the stack. Vent shall not exceed the following levels.				Complied															
	Parameters		Permissible Limit (Microgram/m3)																	
			Annual	24 Hrs. Avg.																
	Particulate Matter – 10 (PM10)		60	100																
	Particulate Matter – 10 (PM2.5)		40	60																
SO ₂		50	80																	
NO _x		40	80																	
4.6	The applicant shall provide portholes, ladder, platform etc. at chimney(s) for monitoring the air emissions and the same shall be open for inspection to land for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-I, S-2, etc. and these shall be painted/displayed to facilitate identification.				Complied.															
4.7	The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(A) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.				Complied															
5	AUTHORIZATION AS PER HAZARDOUS AND OTHER WASTE (MANAGEMENT AND TRANSBOUNDARY) RULES,2016 Form-2 [Sec. Rule 3(c) & 5(5)]																			
5.1	Number of authorization: AWH-107721, Date of Issue: 07/04/2020.				Complied															
5.2	<p>M/s.ArcelorMittal Nippon Steel India Limited(Plate Mill Division) is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at Surat- Hazira Road, post Hazira - 394270, Tal: Chorasi, Dist.: - Surat.</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Type of Waste</th> <th>Quantity MT/Year</th> <th>Schedule-I Category</th> <th>Facility</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Used Oil</td> <td>330</td> <td>5.1</td> <td>Collection, Storage, Transportation, disposal by selling to registered Re-refiner.</td> </tr> <tr> <td>2.</td> <td>Empty Barrels/ Containers/ Liners contaminated with hazardous chemical.</td> <td>1650</td> <td>33.3</td> <td>Collection, Storage, transportation and disposal to authorized decontaminator</td> </tr> </tbody> </table>				Sr. No.	Type of Waste	Quantity MT/Year	Schedule-I Category	Facility	1.	Used Oil	330	5.1	Collection, Storage, Transportation, disposal by selling to registered Re-refiner.	2.	Empty Barrels/ Containers/ Liners contaminated with hazardous chemical.	1650	33.3	Collection, Storage, transportation and disposal to authorized decontaminator	Complied
Sr. No.	Type of Waste	Quantity MT/Year	Schedule-I Category	Facility																
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2.	Empty Barrels/ Containers/ Liners contaminated with hazardous chemical.	1650	33.3	Collection, Storage, transportation and disposal to authorized decontaminator																
5.3	The authorization shall be valid up 31/12/2024.				Complied															
5.4	The authorization is subject to the conditions stated below and such other condition as may be specified in the rules from time to time under the Environment Protection Act -1986.				Complied															
5.5	The authorization is granted to operate a facility for collection, storage, within factory premises transportation and ultimate disposal of Hazardous Waste as per condition 5.2 to the industry having valid CCA of this Board.				Complied															

6	TERMS AND CONDITIONS OF AUTHORISATION	
6.1	The applicant shall comply with the provision of the Environment Protection Act, 1986 and the rules made there under.	Complied
6.2	The authorization shall be produced for inspection at the request of an officer authorized by the GPCB.	Complied
6.3	The persons authorized shall not rent, lend, sell, transfer or otherwise transport the HW without obtaining prior permission of the GPCB.	Complied
6.4	Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorization order by the persons authorized shall constitute a breach of this authorization	Complied
6.5	The person authorized shall comply with the provision outlined in the central pollution control board guidelines on "Implementing and liabilities for environmental damages due to handling and disposal of handling and disposal of hazardous waste and penalty"	Complied
6.6	The person authorized shall comply with the provisions outlined in the central pollution control board guidelines on "implementing liabilities for environmental damages due to handling and disposal of hazardous waste and penalty."	Complied
6.6	It is the duty of the authorized person to take prior permission of the GPCB to close down the facility.	Complied
6.8	An application for renewal of an authorization shall be made as laid down in rule 6(2) under Hazardous and Other Waste management and transboundary Rules, 2016.	Complied
6.9	The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operations.	Complied
6.10	The record of consumption and fare of the imported hazardous and other waste shall be maintained.	Complied
6.11	The hazardous and other wastes which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other waste shall be treated and disposal of as per specific condition of authorization.	Complied
6.12	The importer or exporter shall bear the cost of import or export and mitigation of damages if any.	Complied
6.13	Any other condition for compliance as per the guidelines issued by the ministry of environment, Forest and Climate Change or Central Pollution Control Board from time to time.	Complied
6.14	The waste generator shall be totally responsible for (i.e. Collection, Storage, Transportation, and Ultimate Disposal) the wastes generated.	Complied
6.15	Records of waste generation, its management and annual return shall be submitted to Gujarat Pollution Control Board in Form-4 by 30 th day of every year for the proceeding period April to March.	Complied
6.16	In case of any accident, details of the same shall be submitted on form-11 to Gujarat pollution Control Board.	Complied
6.17	As per "Public Liability Insurance Act-1991" Company shall get insurance policy, If applicable.	Complied
6.18	Empty Drums and container of toxic and hazard material shall be treated as per guidelines published for "management & handling of discarded container". Records of the same shall be maintained forwarded to Gujarat Pollution Control Board.	Complied
6.19	In case of transport of hazardous waste to a facility for (i.e. treatment, Storage and disposal) existing in a state other than the state where hazardous waste wastes are generated, the occupier shall obtain 'No Objection Certificate' from the state pollution control board committee of the concerned state of union territory administration where the facility exists.	Complied
6.20	Unit shall take all concrete measures to show sensible result in waste generation, reduction, avoidance, reuse and recycle. Actions taken in this regard shall be submitted within three months and also along with form-4.	Complied
6.21	Industry shall have to display the relevant information with regard to hazardous waste as indicated in the Supreme court's order in W.P.No 657 of 1995 dated 14 th October 2003.	Complied

6.22	Industry shall have to display on-line data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including waste and air emissions and solid hazardous wastes generated within the factory premises.	Complied
7	Specific Condition	
7.1	The Authorized actual user of hazardous and other waste shall maintain records of hazardous and other wastes purchased in a passbook issued by the state pollution control board along with the authorization.	Complied
7.2	Handling over the hazardous and other waste to the authorized actual user shall be only after making the entry in the passbook of the actual user.	Complied
7.3	In case of renewal of authorization, a self-certified compliance report in respect of effluent, emission standard and the condition specified in the authorization for hazardous and other waste shall be submitted to SPCB.	Complied
7.4	The occupier of the facility shall comply the standard operating procedure / guidelines published by MOEF&CC or CPCB or GPCB from time to time.	Complied
7.5	Unit shall comply provision of E-Waste Management Rules-2016.	Complied
7.6	The Disposal of Hazardous waste shall be carried out as per the waste management hierarchy.	Complied
7.7	The occupier of facilities shall not store the hazardous waste and other waste for a period not exceeding ninety days. Prior permission of the board shall be obtained for extension of the storage period.	Complied
7.8	The occupier shall maintain the records of generation, sale, storage, transport, recycling, co-processing and disposal of hazardous waste and make available during inspection.	Complied
7.9	The transportation of the hazardous waste shall be carried out in GPS mounted dedicated vehicles.	Complied
8.	General Condition	
8.1	Any change in personnel, equipment or working conditions as mentioned in the in the consent should be intimated to this board	Complied
8.2	Applicant shall also comply with the general conditions as in annexure 1	Complied
8.3	Whenever due to accident or other unforeseen act or ever, such emissions occur or is apprehended to occur in excess of standard laid down such information shall be forthwith reported to board, concerned police station, office of directorate of health services, department of explosives, Inspectorate of factories and local body.	Complied
8.4	In case of failure of pollution control equipment, the production process connected to it shall be stopped. Remedial actions/measures shall be implemented immediately to bring entire situation normal.	Complied
8.5	The Environment Management Unit/Shell be setup to ensure implementation on and monitoring of environmental safe guards and other conditions stipulated by statutory authorities. The environmental management Cell/Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issues. These cells/units also coordinate the exercise of environmental audit and preparation of environment statements.	Complied
8.6	The Environmental Audit Shall be carried out yearly and the environmental statements pertaining to the previous year shall be submitting to this state board latest by 30 th September every year	Complied

COMPLIANCE REPORT OF CCA

Name: M/s. ArcelorMittal Nippon Steel India Limited (Power Division)
Plot no: - 353,354 @27 Km Surat – Hazira Road, Post Hazira – 394270,
Tal: Chorasi, Dist: Surat.

Sr. NO.	CONDITION	STATUS																																						
1.	Consent Order No. AWH – 103579, Date of issue: 19/08/2019	---																																						
2.	The consents shall be valid up to 31/03/2024 for the use of outlet for the discharge of treated effluent & air emission and to operation of industrial plant for manufacturing of the following items/products: <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Products</th> <th>Total Quantity in MW</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Power</td> <td>525</td> </tr> </tbody> </table>	Sr. No.	Products	Total Quantity in MW	1	Power	525	Complied.																																
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1.	Industry shall strictly comply with all specific conditions mentioned in Environmental Clearance issued by Govt. of India, Ministry of Environment and Forest vide their letter No. order no. J-11011/74/2006 IA-II (I) dated 13/06/2016.	Complied																																						
2.	The unit shall strictly observe and comply with conditions stipulation made in Environmental Clearance issued by MOEF, New Delhi in its Order No. J-11011/45/2004 IA-II (I) dated 07/11/2005.	Complied																																						
3.	The applicant shall strictly observe and comply with various stipulation imposed by MOEF, New Delhi in its Order No. J-11011/4/92 IA-II (I) dated 23/07/1992 & submit compliance report thereof.	Complied																																						
3. CONDITION UNDER WATER ACT:																																								
3.1	Source of Water-Tapi River	Complied																																						
3.2	The quantity of water consumption for industrial purpose shall not exceed 17122 KL/Day.	Complied																																						
3.3	The quantity of freshwater consumption for Domestic purpose shall not exceed 25 KL/Day.	Complied																																						
3.4	The quantity of industrial effluent to be generated from the manufacturing process and other ancillary industrial operations shall not exceed 5980 KL/Day.	Complied																																						
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3.6	Domestic effluent shall be disposed of through septic tank / soak pit system.	Complied																																						
3.7	The applicant shall provide adequate effluent treatment system in order to achieve the quality of the treated effluent as per GPCB norms mentioned below. (Which are applicable) :- <table border="1"> <thead> <tr> <th>Parameters</th> <th>GPCB Norms</th> </tr> </thead> <tbody> <tr> <td>PH</td> <td>6.5 to 8.5</td> </tr> <tr> <td>Temperature</td> <td>40° C</td> </tr> <tr> <td>Colour (pt.co.scale) in units</td> <td>100 units</td> </tr> <tr> <td>Suspended solids</td> <td>100 mg/l</td> </tr> <tr> <td>Oil and grease</td> <td>10 mg/l</td> </tr> <tr> <td>Phenolic compounds</td> <td>1 mg/l</td> </tr> <tr> <td>Sulphides</td> <td>2 mg/l</td> </tr> <tr> <td>Ammonical Nitrogen</td> <td>50 mg/l</td> </tr> <tr> <td>Total Chromium</td> <td>2 mg/l</td> </tr> <tr> <td>Hexavalent chromium</td> <td>0.1 mg/l</td> </tr> <tr> <td>BOD (5 days at 200 C)</td> <td>30 mg/l</td> </tr> <tr> <td>COD</td> <td>100 mg/l</td> </tr> <tr> <td>Cyanides</td> <td>0.2 mg/l</td> </tr> <tr> <td>Fluorides</td> <td>1.5 mg/l</td> </tr> <tr> <td>Lead</td> <td>0.1 mg/l</td> </tr> <tr> <td>Copper</td> <td>2 mg/l</td> </tr> <tr> <td>Nickel</td> <td>3 mg/l</td> </tr> <tr> <td>Zinc</td> <td>5 mg/l</td> </tr> </tbody> </table>	Parameters	GPCB Norms	PH	6.5 to 8.5	Temperature	40° C	Colour (pt.co.scale) in units	100 units	Suspended solids	100 mg/l	Oil and grease	10 mg/l	Phenolic compounds	1 mg/l	Sulphides	2 mg/l	Ammonical Nitrogen	50 mg/l	Total Chromium	2 mg/l	Hexavalent chromium	0.1 mg/l	BOD (5 days at 200 C)	30 mg/l	COD	100 mg/l	Cyanides	0.2 mg/l	Fluorides	1.5 mg/l	Lead	0.1 mg/l	Copper	2 mg/l	Nickel	3 mg/l	Zinc	5 mg/l	Complied
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4.2	Applicant shall install & operate comprehensive adequate air pollution control system in order to achieve prescribed norms.		Complied																																										
4.3	The flue gas emission through stack attached to boiler/ furnace/ heater shall conform to the following standards: -																																												
	<table border="1"> <thead> <tr> <th>Stack No.</th> <th>Stack attached to</th> <th>Stack height in Meter</th> <th>Air Pollution Control System</th> <th>Parameter</th> <th>Permissible Limit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>HRS-1</td> <td>65</td> <td>Low NOx generating burners</td> <td>Particulate Matter SO₂ NO_x</td> <td>50 mg/Nm³ 200 mg/Nm³ 300 mg/Nm³</td> </tr> <tr> <td>2</td> <td>HRS-2</td> <td>65</td> <td>Low NOx generating burners</td> <td>Particulate Matter SO₂ NO_x</td> <td>50 mg/Nm³ 200 mg/Nm³ 300 mg/Nm³</td> </tr> <tr> <td>3</td> <td>HRS-3</td> <td>65</td> <td>Low NOx generating burners</td> <td>Particulate Matter SO₂ NO_x</td> <td>50 mg/Nm³ 200 mg/Nm³ 300 mg/Nm³</td> </tr> <tr> <td>4</td> <td>GT-1</td> <td>30</td> <td>Low NOx generating burners</td> <td>Particulate Matter SO₂ NO_x</td> <td>50 mg/Nm³ 200 mg/Nm³ 300 mg/Nm³</td> </tr> <tr> <td>5</td> <td>GT-2</td> <td>30</td> <td>Low NOx generating burners</td> <td>Particulate Matter SO₂ NO_x</td> <td>50 mg/Nm³ 200 mg/Nm³ 300 mg/Nm³</td> </tr> <tr> <td>6</td> <td>GT-3</td> <td>30</td> <td>Low NOx generating</td> <td>Particulate Matter SO₂</td> <td>50 mg/Nm³ 200 mg/Nm³</td> </tr> </tbody> </table>	Stack No.	Stack attached to	Stack height in Meter	Air Pollution Control System	Parameter	Permissible Limit	1	HRS-1	65	Low NOx generating burners	Particulate Matter SO ₂ NO _x	50 mg/Nm ³ 200 mg/Nm ³ 300 mg/Nm ³	2	HRS-2	65	Low NOx generating burners	Particulate Matter SO ₂ NO _x	50 mg/Nm ³ 200 mg/Nm ³ 300 mg/Nm ³	3	HRS-3	65	Low NOx generating burners	Particulate Matter SO ₂ NO _x	50 mg/Nm ³ 200 mg/Nm ³ 300 mg/Nm ³	4	GT-1	30	Low NOx generating burners	Particulate Matter SO ₂ NO _x	50 mg/Nm ³ 200 mg/Nm ³ 300 mg/Nm ³	5	GT-2	30	Low NOx generating burners	Particulate Matter SO ₂ NO _x	50 mg/Nm ³ 200 mg/Nm ³ 300 mg/Nm ³	6	GT-3	30	Low NOx generating	Particulate Matter SO ₂	50 mg/Nm ³ 200 mg/Nm ³		
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		burners	NO _x	300 mg/Nm ³		
4.4	There shall be no process emission from the manufacturing process as well as any other ancillary process.				Complied	
4.5	The concentration of the following parameters in the ambient air within the premises of the industry and a distance of 10 meters from the source other than the				Complied	
	Parameters	Permissible Limit (Microgram/m3)				
		Annual	24 Hrs. Average			
	Particulate Matter – 10 (PM10)	60	100			
	Particulate Matter – 10 (PM2.5)	40	60			
	SO ₂	50	80			
	NO _x	40	80			
4.6	The applicant shall provide portholes, ladder, platform etc. at chimney(s) for monitoring the air emissions and the same shall be open for inspection to land for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-I, S-2, etc. and these shall be painted/displayed to facilitate identification.				Complied	
4.7	The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(A) during daytime and 70 dB (A) during night time. Daytime is reckoned in between 6a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.				Complied	
6	Authorization as per Hazardous and other waste (management and transboundary) Rule,2016 Form-2 [See rule 6(2)]					
	Form of grant of authorization for occupier or operator handling hazardous waste					
6.1	Authorization order No.: 103579, Date of issue: 19/08/2019				Complied	
6.2	M/s. Bhandar Power Limited is hereby granted an authorization to operate facility for following Hazardous wastes on the premises situated at plot No.353,354,27 Km Surat-Hazira Road, Hazira-394270, Tal: Chorasi, Dist:Surat.				Complied	
	Sr. No.	Details of Waste	Qty.	Schedule-I Process No		Facility
	1	Used Oil	54 MT/Year	5.1		Collection, storage, transportation and disposal by selling to register re-refiners.
	2	Empty Barrels / containers / Liners / Contaminated with hazardous chemicals / Wastes	6 MT/Year	33.1	Collection, storage, transportation and disposal top authorized decontaminator.	
6.3	The Authorization shall be valid up to 31-03-2024 .				Complied	
6.4	The authorization is subject to the conditions stated below and such other condition as may be specified in the rules from time to time under the Environment Protection Act -1986.				Complied	
6.5	The authorization is granted to operate a facility for collection, storage, within factory premises transportation and ultimate disposal of Hazardous Waste as per condition 6.2 to the industry having valid CCA of this Board.				Complied	
7	TERMS AND CONDITIONS OF AUTHORISATION					
7.1	The applicant shall comply with the provision of the Environment Protection Act, 1986 and the rules made there under.				Complied	
7.2	The authorization shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.				Complied	
7.3	The persons authorize shall not rent, lend, sell, transfer or otherwise transport the Hazardous Waste withoutobtaining prior permission of the Gujarat Pollution Control Board.				Complied	
7.4	Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorization order by the persons authorized shall constitute a breach of this authorization				Complied	
7.5	The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site-specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval time.				Complied	
7.6	The person authorized shall comply with the provisions outlined in the central pollution control board guidelines on “implementing liabilities for environmental damages due to handling and disposal of				Complied	

	hazardous waste and penalty.”	
7.6	It is the duty of the authorized person to take prior permission of the Gujarat Pollution Control Board to close down the facility.	Complied
7.8	An application for renewal of an authorization shall be made as laid down in rule 6(2) under Hazardous and Other Waste management and transboundary Rules, 2016.	Complied
7.9	The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operations.	Complied
7.10	The record of consumption and fare of the imported hazardous and other waste shall be maintained.	Complied
7.11	The hazardous and other wastes which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other waste shall be treated and disposal of as per specific condition of authorization.	Complied
7.12	The importer or exporter shall bear the cost of import or export and mitigation of damages if any.	Complied
7.13	Any other condition for compliance as per the guidelines issued by the ministry of environment, Forest and Climate Change or Central Pollution Control Board from time to time.	Complied
7.14	The waste generator shall be totally responsible for (i.e., Collection, Storage, Transportation, and Ultimate Disposal) the wastes generated.	Complied
7.15	Records of waste generation, its management and annual return shall be submitted to Gujarat Pollution Control Board in Form-4 by 30 th day of every year for the proceeding period April to March.	Complied
7.16	In case of any accident, details of the same shall be submitted on form-11 to Gujarat pollution Control Board.	Complied
7.17	As per “Public Liability Insurance Act-1991” Company shall get insurance policy, If applicable.	Complied
7.18	Empty Drums and container of toxic and hazard material shall be treated as per guidelines published for “management & handling of discarded container”. Records of the same shall be maintained & forwarded to Gujarat Pollution Control Board regularly.	Complied
7.19	In case of transport of hazardous waste to a facility for (i.e., treatment, Storage and disposal) existing in a state other than the state where hazardous waste wastes are generated, the occupier shall obtain ‘No Objection Certificate’ from the state pollution control board committee of the concerned state of union territory administration where the facility exists.	Complied
7.20	Unit Shall take all concrete measures to show sensible result in waste generation, reduction, avoidance, reuse and recycle. Actions taken in this regard shall be submitted within three months and also along with form-4.	Complied
7.21	Industry shall have to display the relevant information with regard to hazardous waste as indicated in the Supreme court’s order in W.P.No 657 of 1995 dated 14 th October 2003.	Complied
7.22	Industry shall have to display on-line data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including waste and air emissions and solid hazardous wastes generated within the factory premises.	Complied
8	GENERAL CONDITIONS	
8.1	Any change in personnel, equipment or working conditions as mentioned in the in the consent should be intimated to this board	Complied
8.2	Applicant shall also comply with the general conditions as in annexure 1	Complied
8.3	Whenever due to accident or other unforeseen act or ever, such emissions occur or is apprehended to occur in excess of standard laid down such information shall be forthwith reported to board, concerned police station, office of directorate of health services, department of explosives, Inspectorate of factories and local body.	Complied
8.4	In case of failure of pollution control equipment, the production process connected to it shall be stopped. Remedial actions/measures shall be implemented immediately to bring entire situation normal.	Complied
8.5	The Environment Management Unit/Shell be setup to ensure implementation on and monitoring of environmental safeguards and other conditions stipulated by statutory authorities. The environmental management Cell/Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issues. These cells/units also coordinate the exercise of environmental audit and preparation of environment statements.	Complied
8.6	The Environmental Audit Shall be carried out yearly and the environmental statements pertaining to the previous year shall be submitting to this state board latest by 30 th September every year	Complied
8.7	The Board reserves the right to review and/or revoke the consent and/or make variations in the conditions, which the Board deems, fit in accordance with Section 27 of the Act.	Complied
8.8	In case of change of ownership/management the name and address of the new owners/partners/directors/proprietor should immediately be intimated to the board.	Complied
8.9	Industry shall have to display the relevant information with regards to hazardous waste as indicated in the Hon. Supreme order in w.p.no. 657 of 1995 dated 14 th October 2003.	Complied

9	SPECIFIC CONDITIONS: -	
9.1	The Authorized actual user of hazardous and other waste shall maintain records of hazardous and other wastes purchased in a passbook issued by the state pollution control board along with the authorization.	Complied
9.2	Handling over the hazardous and other waste to the authorized actual user shall be only after making the entry in the passbook of the actual user.	Complied
9.3	In case of renewal of authorization, a self-certified compliance report in respect of effluent, emission standard and the condition specified in the authorization for hazardous and other waste shall be submitted to SPCB.	Complied
9.4	The occupier of the facility shall comply the standard operating procedure / guidelines published by MOEF&CC or CPCB or GPCB from time to time.	Complied
9.5	Unit shall comply provision of E-Waste Management Rules-2016.	Complied
9.6	The Disposal of Hazardous waste shall be carried out as per the waste management hierarchy.	Complied
9.7	The occupier of facilities shall not store the hazardous waste and other waste for a period not exceeding ninety days . Prior permission of the board shall be obtained for extension of the storage period.	Complied
9.8	The occupier shall maintain the records of generation, sale, storage, transport, recycling, co-processing, and disposal of hazardous waste and make available during inspection.	Complied
9.9	The transportation of the hazardous waste shall be carries out in GPS mounted dedicated vehicles.	Complied

Annexure 22: Linkage for Iron Ore

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NMDC

COM/Essar/2019-20

Shri. Hrishikesh Kamat

Chief Procurement Officer

Arcelor Mittal Nippon Steel India Ltd.

(Formerly Essar Steel India Limited)

2nd Floor, Birla Centurion, Worli Century Mills Compound

Pandurang Bhudkar Marg

Worli, MUMBAI – 400 030

E-mail: Hrishikesh.Kamat@amns.in; Vivek.Nath@amns.in

Dear Sir,

Sub: **Supply/sale of iron ore lump (DRCL0/B.ROM/Baila Lump) from Bailadila Sector.**

Ref: Agreement dated 28-03-2016 for sale of iron ore lump from Bailadila Sector.

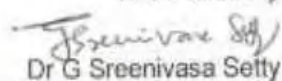
The agreement dated 28-03-2016 signed between M/s Essar Steel India Limited (currently Arcelor Mittal Nippon Steel India Limited) for supply / sale of iron ore lump (DRCL0/B.ROM/Baila lump) from Bailadila Sector for a period of 3 years from 01-04-2015 to 31-03-2018 was valid till 31-03-2018. M/s Essar Steel India Limited vide letter dated 31-03-2018 has given an undertaking that in order to maintain continuity in supplies, pending renewal / signing of agreement w.e.f. 01-04-2018, iron ore lump (DRCL0/B.ROM/Baila Lump) supplies to M/s Essar Steel India Limited will be continued at long term prices w.e.f. 01-04-2018 as per the terms and conditions of the agreement dated 28-03-2016 for sale of iron ore lump.

In view of the Resolution plan of Arcelor Mittal India Private Limited (AMIPL) for Essar Steel India Limited has been approved by the Hon'ble Supreme Court of India vide its order dated 15th November 2019 in respect of the corporate insolvency resolution process, the name of the company has been changed from Essar Steel India Limited to Arcelor Mittal Nippon Steel India Limited on 8th January 2020 as ordered by Registrar of Companies, Ahmedabad. In view of the change of name, M/s Arcelor Mittal Nippon Steel India Limited do hereby undertake that pending renewal / signing of agreement w.e.f. 08-01-2020 (from the date of change of name), iron ore lump supplies to Arcelor Mittal Nippon Steel India Limited (formerly M/s Essar Steel India Limited) will be as per the terms and conditions of the agreement dated 28-03-2016 for supply of iron ore lump (DRCL0/B.ROM/Baila Lump) till signing of new agreement.

The letter is being sent in duplicate. You may kindly return us a copy duly signed as a token of your acceptance.

Thanking you

Yours faithfully


Dr G Sreenivasa Setty

Jt. General Manager (Commercial)

No. 466 /OMC/S&M/2021Dt. 08 /01/2021**SPEED POST**

To
M/s. Arcelor Mittal Nippon Steel India Ltd.
(Essar Steel)
27 KM Surat Hazira Road, Choryasi
Dist-Surat, Gujarat-394270

Sub: Signing of Long Term Linkage (LTL) Agreement as per Govt. Notification No. 7009 dtd 17.09.2014 (As amended vide notification dated 30.04.2015, 18.11.2015 and 10.08.2018) & Notification No. 1896 dtd. 20.02.2020.

Sir,

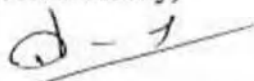
With reference to the subject matter cited above, this is to inform you that basing on the decision of the Allotment Committee meeting held at Industries Deptt., Kharavela Bhawan on 29.12.2019, the annual eligible quantity of your plant for supply of Iron Ore for the calendar year from Jan'2021 to Dec'2021 will be as follows.

Name of the Mine	Product (Iron Ore)	
	CLO	Fig (in MT)
Gandhamardan Iron Ore Mines	4,85,704	4,85,704

The allotment as per the above eligible quantity shall be effective from 01.01.2021. Further, the quantity agreed to be sold and delivered as indicated above is subject to availability of the product at OMC's Mines.

In view of the above, you are requested to sign the revised LTL Sales Agreement soon, failing which no allotment shall be made in your favour w.e.f 01.01.2021.

Yours faithfully,


Chief General Manager (Min.)
THE Odisha Mining Corporation Ltd.

(A Gold Category State PSU)

Registered Office : OMC House, Bhubaneswar -751001, India
Tel : 0674-2377400/2377401, Fax: 0674-2396889, www.omcltd.com
CIN : U131000R1956SGC000313

Annexure 23: Linkage of Coal and Coke



Teck Resources Limited
Suite 1400, 500 Centre St. SE
Calgary, AB Canada T2G 1A6
+1 403 767 8500 Tel
www.teck.com

ArcelorMittal Nippon Steel India Limited
27Km Surat Hazira Road, Hazira Surat,
Gujarat-394720, India.

Sub: Supply of Raw Materials to ArcelorMittal Nippon Steel plant at Hazira, Gujarat.

Dear Sir,

We, Teck Coal Limited, are one of the leading miner / producer & sellers in the world for supply of metallurgical coal catering to the steel industry across the globe.

In relation to your intended steel expansion project at Hazira, India, we intend to supply below products of steel grade coal.

We hereby tender our concurrence to supply this below mentioned tonnages on regular basis on commercial terms and condition as may be mutually agreed in the future.

Product	Tonnage Mio Ton
Pulverised injection Coal	0.20*
Metallurgical Coal	6.50*

* Subject to agreeing on qualities/tonnage per grade and commercial terms.

We shall formalize commercial terms and conditions in the form of agreement as and when your plant intends to commence commercial production.

Sincerely,



Colin W. Petryk
Director, Marketing
Teck Coal Limited
+1(403)767-8581



Ref: 050722

To: ArcelorMittal Nippon Steel India Limited

27Km Surat Hazira Road, Hazira Surat,
Gujarat-394720, India.

Sub: Supply of Raw Materials to ArcelorMittal Nippon Steel plant at Hazira, Gujarat.

Dear Sirs,

We KRU OVERSEAS DMCC is the subsidiary of one of the leading miner / producer and being the sellers in the world for supply of Russian coal catering to steel industry across globe.

Please refer to our web-site for more information about our activity <https://kru-overseas.ae/>

In relation to your intended steel expansion project at Hazira , India facility, we intend to supply below products of steel grade.

We hereby tender our concurrence to supply this below mentioned tonnages on regular basis on commercial terms and condition as may be mutually agreed in future.

Product	Tonnage Mio Ton
Pulverised injection Coal	2.44
Metallurgical Coal	6.50

We shall formalize commercial terms and conditions in the form of agreement as and when your plant intend to commence commercial production.

Yours Sincerely,




Mr Tolstikov Maxim
Manager/Director of KRU OVERSEAS DMCC