GOVERNMENT OF INDIA MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE (IA DIVISION-INDUSTRY-3 SECTOR)

Dated: 12.2.2024

MINUTES OF THE 74th EXPERT APPRAISAL COMMITTEE (INDUSTRY-3 SECTOR) MEETING HELD ON 6th FEBRUARY, 2024

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

Time: 10:30 AM onwards

(i) Opening Remarks by the Chairman

Prof. (Dr.) A.B. Pandit, Chairman welcomed the Committee members and opened the EAC meeting for further deliberations.

(ii) Details of Agenda items by the Member Secretary

The Member Secretary apprised the Committee that proposal of M/s Transworld Furtichem Pvt. Ltd [proposal no. IA/MH/IND3/437576/2023] was considered in the 69th EAC meeting of Industry-3 Sector held during 16-17 November, 2023 through Video Conferencing (VC) and the Committee noted that Dhatav Village is part of ESAs of Western Ghats as per the Draft Notification published vide S.O. 3072(E) dated 6.7.2022 and also desired to obtain views/comments of ESZ division. Accordingly, ESZ Division has provided the comments regarding the applicability of the Western Ghats ESA regulations for the instant industry. As far the applicability of the Western Ghats ESA regulations for the instant industry is concerned it is mentioned that as of now Dhatav village is part of Western Ghats ESA and is listed in draft notification. Therefore, all the provisions [prohibited/regulated activities; as stated in para '3' (1) & (2)], as contained in draft notification on Western Ghats ESA notification re-published on 06.07.2022 is under finalization, the directions issued by this Ministry vide its O.M No. 1-4/2012-RE(Pt), dated 13.11.2013 and its amendment issued vide O.M No. 1/9/2018-ESZ, dated 03.12.2018 are in force and valid on date. Therefore, the said case can not be considered by the EAC (Industry -3).

The Member Secretary then apprised the Committee about the details of Agenda items to be discussed during this Expert Appraisal Committee (EAC) meeting.

(iii) Confirmation of Minutes of the 73rd EAC Meeting held on 16th-17th January, 2024.

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The EAC noted that the final minutes of the above meeting were issued after incorporating the comments offered by the members and approved by the Chairman.

Agenda Items as per Parivesh 1.0 Portal

Agenda No. 74.1

Proposed Expansion of Synthetic Organic Chemicals (API and Intermediates) Manufacturing Unit upto the Production Capacity of 34 MT/Month located at Plot No. B-40, MIDC Paithan, Taluka Paithan, District Aurangabad, Maharashtra by M/s Satellite Pharmaceuticals Pvt. Ltd. - Reconsideration of Environmental Clearance

[Proposal No. IA/GJ/IND3/457131/2023; File No. IA-J-11011/505/2021-IA-II(I)]

- 1. The proposal is for the environmental clearance for Proposed Expansion of Synthetic Organic Chemical (API and Intermediates) Manufacturing Unit upto the Production Capacity of 34 MT/Month located at Plot No.: B-40, MIDC Paithan, Taluka-Paithan, District Aurangabad, Maharashtra by M/s Satellite Pharmaceuticals Pvt. Ltd.
- 2. The project/activity is covered under Category 'B' of item 5(f), Synthetic organic chemicals industry of Schedule of EIA Notification, 2006 (as amended). However, since the proposed project site is at a distance of 2.9. km from ESZ of Jaikwadi Bird Sanctuary, the project attracts the general condition and considered as Category 'A' at Centre.
- 3. The ToR was issued by Ministry vide letter no. No. IA-J-11011/505/2021-IA-II (I) dated 02.02.2021. The PP applied for Environment Clearance in the Common Application Form and submitted EIA/EMP Report and other documents. The PP in the Form reported that it is an **Expansion case. The proposal was placed in 60th EAC meeting on10th August, 2023**, in which EAC deferred the proposal, now the proposal is placed in the 74th EAC meeting held on 6th February, 2024 wherein the PP along with accredited Consultant, Building Environment (India) Pvt. Ltd [Accreditation number NABET/EIA/2225/RA 0267_Rev 01Valid till 27.05.2025] made a detailed presentation on the salient features of the project. The information submitted by the PP is as follows:
- 4. The PP reported that the existing land area is 6,840 m² land, no additional land is required for the proposed expansion, no R& R is involved in the Project. The details of products to be manufactured are as follows:

S. NO	Product name	Quantity/Month	Application
		Existing	

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1	Sodium Chloride	11 MT	Formulation
			preparation
2	Ammonium Chloride	11 MT	Pharmaceutical
			preparations
3	Potassium Chloride	11 MT	Medical application,
			Synthesis of Nucleic
			acid
Total		33 MT	
The exi	sting products will be discontin		
		Proposed	
1	Benzhydrol	8 MT	Intermediate for
			Modafinil and
			Citrazine
			Hydrochloride.
2	2-Phenyl-1H-	2 MT	Intermediate for
	Benzimidazole-5-		Sunscreen
	Sulphonic Acid		
3	Cinnamyl alcohol	2 MT	Intermediate for
			Cinnacalsate
4	Diethyl Amine-2-Hydroxy	2 MT	API- Analgic
	Benzoate		Muscular/ joint pain
5	4-Methoxy Phenyl	10 MT	Food Additive
	Acetone		
6	4-Hydroxy Benzyl	3 MT;	Precursor for synthesis
	Alcohol		of copolyoxalate
			nanaoparticles as
			potential drug delivery
			system
7	Chlorsulon Intermediate	3.50 MT	Intermediate for API
			Chlorsulon
			[Veterinary API]
8	Nitroxinil Intermediate	3.50 MT	Intermediate for API
			Nitroxinyl
			[Verteniary API]
Total		34 MT	

5. The PP reported that there is no violation case as per the Notification No. S.O. 804(E) dated 14.03.2017 and no direction is issued under E (P) Act/Air Act/Water Act.

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- 6. The PP reported that Satellite Pharmaceuticals Pvt. Ltd. (SPPL) started operation in 1993 as an inorganic chemical industry located at Plot No. B-40, MIDC Paithan, District-Aurangabad, Maharashtra. Since production of inorganic compounds are not in purview of EIA Notification 2006, Environment Clearance was not required for production for existing inorganic products.
- 7. The PP reported that there is Jayakwadi Bird Sanctuary at distance of 2.9 km from project site. Godavari River (Jaikwadi Dam Backwater) – 1.5 km in West direction. There is no forest land involved in the proposed project. Brahminy Kite-Haliastus indus, Western Marsh Harrier-Circus aeruginosus, Steppe Eagle-Aquila nipalensis and Osprey-Pandion haliactus Schedule-I species are found are in the study area for which conservation plan has been prepared and submitted.
- 8. The PP reported that **Ambient air quality monitoring** was carried out at 8 locations during 01st March to 31st May-2022 to and the baseline data indicate the ranges of concentrations as: PM_{10} (56.30 -73.37µg/m³), $PM_{2.5}$ (27.26-36.62µg/m³), SO_2 (20.96-29.96µg/m³) and NO_2 (25.14-39.68 µg/m³). AAQ modeling study for point source emissions indicate that the maximum incremental GLCs after the proposed project would be 70.02 µg/m³, 20.82 µg/m³ and 4.2 µg/m³ with respect to PM_{10} , SO_2 and NO_2 . The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).
- 9. The PP reported that the total water requirement is 48.453 m³/day of which fresh water requirement of 48.453 m³/day will be met from MIDC/Recycled Water. Total effluent generated will be 10.30 KLD which will be treated in ETP of capacity 20 CMD. 17 CMD excess treated water will be sent to Waluj CETP for further treatment and disposal

Connected Load	187 KVA
Total Demand Load	95 KVA
Solar Panel	50 KW Solar Panels will be installed on site for additional power back up
Source	MSEDCL

10. The PP reported that the power requirement is as-

11. Details of Process Emissions Generation and its Management:

Sr.	Name of the	Name of	Emission	Emission	Disposal Method
No	Product	the Gas	kg/Day	Rate kg/Hr	
1	Methoxy Phenyl	CO_2	8.295	1.036	Scrubbed with chilled
	Acetone				water and caustic solution
2	Chlosulon	HCl	106.15	8.845	Scrubbed with chilled
	Intermediate				water and caustic solution

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3	Nitrixinil Intermediate	NO	24.15	2.415	Scrubbed with chilled water and caustic solution.
Stack	Attached to	APCM	Stack	Parameters	Permissible Limit
<u>No</u> 1	Scrubber Process	Catch pot with packed column with water supply	Height 10m	Acid Mist, NH ₃ , CO ₂	<35 ppm
2	Laboratory Fume cupboard	Catch pot packed column with water/Alkali supply	10m	SO ₂ , HCL,	<35 ppm
3	Reactor Process	Catch pot with packed column	15m	HCl, SO ₂ , CO ₂	<35 PPM
4	Process Reactor	Catch pot with packed column	15 m	NH ₃ ,CO ₂	< 35PPM.

12. Details of Solid Waste/ Hazardous Waste Generation and its Management:

S.No	Description	Schedule	UOM	Frequency	Quantity	Disposal
		No				
1.	Wastes or Residues	5.2	Kg	Month	50	CHWTSDF
	containing oil					
2.	Organic Residues from	4.4	Kg	Day	38.60	CHWTSDF
	process					
3.	Distillation residues	20.3	Kg	Day	94.653	CHWTSDF
4.	Spent Solvent	23.2	Kg	Day	97.6	Sale to
						authorized
						Recycler/
						CHWTSDF
5.	Off specification products	28.4	Kg	Month	50	CHWTSDF
6.	Spent acids	29.6	Kg	Day	521.53	Sale to
	-			-		authorized
						Recycler/
						CHWTSDF

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7.	Empty Barrels /	33.1	No	Month	100	Sale to
	containers/ liners					authorized
	contaminated with					Recycler/
	hazardous chemicals /					CHWTSDF
	wastes					
8.	Chemical sludge from	35.3	kg	Day	250	CHWTSDF
	waste water treatment					

- 13. The Budget earmarked towards the Environmental Management Plan (EMP) is ₹ 175 Lakhs (capital) and the Recurring Cost (operation and maintenance) will be about ₹ 30 Lakhs/annum. Industry proposes to allocate Rs. 5.3 Lakhs towards Corporate Social Responsibility.
- 14. Industry has already developed / will develop greenbelt over an area of 33 % i.e., 2257.21 sq.m. out of total area of the project.
- 15. The PP reported that the Public Hearing is exempted as per the Para 7.III. Stage (3) (i) (b) of the EIA Notification, 2006 as the project site is located within MIDC Paithan which is declared as notified industrial area in the year 1976.
- 16. The PP proposed to set up an Environment Management Cell (EMC) by engaging Managing Director- Director operation- Plant manager- EHS Manager- General Manager- Supervisior-Chemist- Worker (safety)- worker (Environement) for the functioning of EMC.
- 17. The PP submitted the Disaster Management Plan and On-site and Off-site Emergency Plans in the EIA report.
- 18. The estimated proposed project cost is Rs 5.3 Crores. Total Employment will be 25 persons as after expansion.
- 19. The Proposal considered in the **60** th **EAC Meeting held on 10** th **August,2023** wherein the EAC deferred the proposal for want of requisite information. Reply to the same was submitted by the PP vide letter 3.11.2023 which is as follows:

S. No.	Queries Raised by EAC	Reply by PP
(i)	report of the existing CTO	PP has not submitted the Certified Compliance report of the existing CTO. The Committee suggested to submit the same.
	from the MPCB	

(ii Action plan for green belt development of the existing unit (33%), @2500 trees per hectare, in consultation with forest department and accordingly, submit the details of green belt developed, number of trees and aerial photographs and video.	Total Plot Area: 6840 sq. m Greenbelt area :2,257.2 Sq. m (33%) ~ 0.225 ha No. of Existing Trees : 15 no's No. of Trees Proposed : 550 no's Total Nos of Trees : 565 no's Cost / Year: Rs. 17.23 Lacs
(ii Revised layout plan with the requisite green belt.	Layout plan with the requisite green belt is submitted.
(i Details of carbon foot print and carbon sequestration study w.r.t. proposed project. Proposed mitigation measures also needs to be submitted.	Details of carbon foot print and carbon sequestration study w.r.t. proposed project and proposed mitigation measures is submitted. Total emissions (t CO2 eq. /year) : 3835.35 The total carbon sequestered through trees (565 trees) - 688.309 t CO2 eq. /year
(v Revised effluent treatment scheme including the STP.	to 48.458 KLD after expansion. Effluent generation will be increased from 5 to 19.5 KLD after expansion. It was noted that PP has not submitted the treatment mechanism of effluent generated after expansion. The Committee suggested to submit Water balance chart alongwith treatment mechanism of effluent.
(v Acknowledgement slip for the submission of the conservation plan for schedule- I species	Acknowledgement slip for the submission of the conservation plan for schedule- I species is submitted. Conservation plan has been submitted to DFO vide letter dated 11.9.2023.

20. Deliberations by the EAC

After detailed deliberations, EAC desired the following information:

• Satellite Pharmaceuticals Pvt. Ltd. (SPPL) started its operation in 1993 as an inorganic chemical industry located at Plot No. B-40, MIDC Paithan, District-Aurangabad, Maharashtra. PP engaged

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in manufacturing of 3 inorganic chemicals - Sodium Chloride, Ammonium Chloride & Potassium Chloride. Since production of inorganic compounds are not in purview of EIA Notification 2006, Environment Clearance was not required for production of existing inorganic products. The Committee noted that PP has not submitted the Certified compliance report issued by MPCB for the existing CTO. Accordingly, the committee suggested that PP shall submit the CCR highlighting compliance of each condition in the letter head of RO, MPCB.

• PP presented that industrial effluent will be segregated into Low TDS/COD and High TDS/COD effluent streams. Low TDS/COD effluent stream will be treated in the ETP comprising primary, secondary and tertiary treatment including RO. High TDS/COD will be treated through solvent stripper followed by Evaporator. Sewage will be treated in the STP. No effluent/treated water will be discharged outside the premises and ZLD will be followed. The Committee suggested to submit the same in writing.

Accordingly, proposal was deferred for want of above additional information. Above all additional information shall be submitted online to the PARIVESH portal for further consideration by EAC.

Agenda No.74. 2

Proposed project to produce Light Soda Ash (LSA) of 11,00,000 TPA capacity, 5,00,000 TPA of Dense Soda Ash (DSA) and 2,00,000 TPA Sodium Bicarbonate (SBC) located at near village Bada, Taluka - Mandvi, District - Kutch in the Gujarat state by "Greenfield Chemical Complex" of GHCL Ltd- Reconsideration of Environmental Clearance

[Proposal no: IA/GJ/IND3/408164/2022, File No. IA-J-11011/293/2021-IA-II(I)]

- The proposal is for Environmental Clearance to the Proposed project to produce Light Soda Ash (LSA) of 11,00,000 TPA capacity, 5,00,000 TPA of Dense Soda Ash (DSA) and 2,00,000 TPA Sodium Bicarbonate (SBC) located at near village Bada, Taluka - Mandvi, District - Kutch in the Gujarat state by "Greenfield Chemical Complex" of GHCL Ltd
- 2. The project/activity is covered under Category 'A' of Item 4 (e) soda ash industry of Schedule of Environment Impact Assessment (EIA) Notification, 2006 (as amended) and requires appraisal at Central Level by the Expert Appraisal Committee (EAC) as the project is located outside the notified industrial area.
- 3. The ToR was issued by the Ministry, vide letter no. IA-J-11011/293/2021-IA-II(I) dated 10th August, 2021. The PP applied for the Environment Clearance in the Common Application Form and submitted the EIA/EMP Report and other documents. The PP in the CAF reported that it is a **Fresh**

EC case. The proposal was placed in 72nd EAC Meeting held on 2nd January, 2024 in which EAC deferred the proposal now the proposal is placed in this 74th EAC meeting held on 6th Februay,2024 where project was wherein the PP and an accredited Consultant, M/s. T. R Associates [NABET accreditation till **NABET Accreditation Number: NABET/EIA/2326/RA 0293 valid till 8th April, 2026**], made a detailed presentation on the salient features of the project and informed the following:

4. The PP reported that the Total land area is **5463200 m²**; no additional land will be used **for proposed project** and no R& R is involved in the Project. The details of various products are as follows:

Sr. No.	Name of the Product	Production Capacity (MT/Month)	CAS Number	End use		
1	Light Soda Ash	11,00,000 TPA	497-19-8	Manufacturing of glass, usage in chemical		
2	Dense Soda Ash	5,00,000 TPA	497-19-8	industry, paper and detergent		
3	Sodium bicarbonate	2,00,000 TPA	144-55-8	manufacturing, and food industry		
Captive boilers)	Captive Co-generation Power plant Steam (CFBC boilers)					
Emergency DG Set			5 MVA			
Note- T	Note- The production capacities are planned in phased manner and for Phase 1 production capacity					

Note- The production capacities are planned in phased manner and for Phase 1 production capacity for LSA: 5,50,000 TPA, Dense Soda Ash: 2,50,000 TPA, SBC: 1,00,000 TPA and 60 MW for Captive Co-generation Power plant.

- 5. The PP reported that there is no violation case as per the Notification No. S.O.804(E) dated 14.03.2017 and no direction is issued under E(P) Act/Air Act/Water Act.
- 6. The PP reported that there is no National Parks, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. Marine National Park and Sanctuary, Jamnagar are located at 75 km aerial distance in South direction and Narayan Sarovar Sanctuary is located at more than 100 km aerial distance in North-West directions. Flap shell turtle, Green Sea turtle, Indian monitor lizard, Olive Ridley Sea turtle, Black shoulder kite, Eurasian Spoonbill, Indian Peafowl, Marsh Harrier, Oriental Honey Buzzard, Gugal Schedule-I species were found in the study area for which conservation plan has been preapred and submitted to PCCF and Chief wildlife warden dated 9.11.2023.

- 7. The PP reported that the diversion of 0.9689 ha unclass forest for laying part of sea water intake and effluent disposal pipeline and passage for related construction equipment movement in Kachchh has been obtained vide ketter dated 18. 7.2023.
- 8. The PP reported the Unit has received the Final recommendation letter from GZMA vide file no ENV/ 10/ 2021/184/ T- cell dated 26.12.2023. CRZ details are as:

Activities	Zone
Construction of process plant and utilities etc.	Outside CRZ area
Effluent collection	Outside CRZ area
Seawater Intake system i.e. sump and pump house	CRZ III
Intake Pipeline	CRZ IA, CRZ IB and CRZ IV
Outfall Pipeline	CRZ IA, CRZ IB and CRZ IV

Laying of Seawater Intake and effluent disposal underground pipeline through tunnel from unclassified Forest area, Sand dune area, intertidal area outside project boundary.

- 9. The PP reported that Ambient air quality monitoring was carried out at 10 locations during December 2019 February 2020. The baseline data indicates the ranges of concentrations as: PM_{10} (19 µg/m³ to 53 µg/m³), $PM_{2.5}$ (8 µg/ m3 to 17 µg/ m3), SO_2 (1 µg/m³ to 14 µg/m³), NOx (5 µg/m³ to 16 µg/m³), Ammonia (6 µg/m³ to 19 µg/m³), Ozone (2 µg/m³ to 8 µg/m³), Carbon Monoxide (0.09 mg/m³ to 0.21 mg/m³), Hydrocarbons [Methane hydrocarbons (0.23 µg/m³ to 1.27 µg/m³) and Non-Methane hydrocarbons (0.11 µg/m³ to 0.19 µg/m³)], Lead (Pb) (0.05 µg/m³ to 0.27 µg/m³), Arsenic (As) (0.02 ng/m³ to 0.11 ng/m³), Nickel (Ni) (0.11 ng/m³ to 0.18 ng/m³), Benzo(α)pyrene(B[a]P) (ND to 0.03 ng/m³) and Benzene (ND to 0.16 µg/m³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 3.05 µg/m³ in case of Lignite, Coal and Petcoke with respect to PM₁₀, 10.98 µg/m³ in case of Lignite, 7.3 µg/m³ in case of coal and 5.62 µg/m³ in case of Petcoke with respect to SO₂ and 11.37 µg/m³ in case of lignite, 7.3 µg/m³ in case of coal and 5.62 µg/m³ in case of Petcoke with respect to NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).
- 10. The PP reported that the Total water requirement for project will be 15,20,060 m³/day in case of Dry Lime process or 13,63,878 m³/day in case of Wet Lime process which will be met from Sea water. Total Effluent of 15,88,570 m³/day (Domestic 160 m³/day + Industrial 15,88,410 m³/day) in case of Dry Lime process or 14,48,818 m³/day (Domestic 160 m³/day + Industrial 14,48,658)

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 m^{3} /day) in case of Wet Lime process. The Process effluent generated i.e. from distiller waste, brine purification reject, RO/DM rejects will be disposed off along with once through return cooling water/fresh seawater into Arabian Sea as per recommendation of NIO. The characteristics of the discharge water are within the norms prescribed by CPCB.

11. The PP reported that the Power requirement for proposed project will be 120 MW and will be met from Captive Co-generation Power plant. D. G. Set (5 MVA X 1) [Fuel: HSD (60 KL)] shall be provided and used only in case of power failure. Stack (30 meter) and Retrofit shall provide as per CPCB norms to the DG sets. Industry will provide six Steam Boiler (150 TPH) for captive power plant, six lime kilns and D G sets

SR.NO	Stack attached to	Capacit y	Heigh t of the stack (m)	Fuel & its Consumptio n	Expecte d Pollutan t	APC System	GPCB Limit
1	CPP with flue gas desulphurizatio n CFBC Boiler (6 Nos.)	150 TPH	130 m	Imported Coal/Lignite/ Pet coke (Imported Coal: 13,14,000 TPA, Lignite :19,71,000 TPA, Pet coke: 9,12,500 TPA)	SPM SO2 NO2 Hg	Individual ESP with each Boiler	$PM \le 30$ mg/Nm^{3} $SO_{2} \le 100$ mg/Nm^{3} $NO_{2} \le 100$ mg/Nm^{3} $Hg \le 0.03$ mg/Nm^{3}
2	D G Set (2/3 Nos.)	5 MVA	30 m	HSD (60 KL)	HC CO PM NO _x	Retrofittin g	NOx 710 ppmv NMHC 100 mg/Nm 3

12. Details of process emissions generation and its management:

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						PM 75 mg/Nm 3 CO 150 mg/Nm 3
3	Lime Kiln 1	68 m			Scrubber and Dust Collector system	
4	Lime Kiln 2	68 m	Coke or Briquette or Anthracite (Coke - 1,30,000 TPA,		Scrubber and Dust Collector system	
5	Lime Kiln 3	68 m		SPM SO ₂	Scrubber and Dust Collector system	$SPM \leq 150 \\ mg/Nm^{3} \\ SO_{2} \leq$
6	Lime Kiln 4	68 m	Briquette- 1,55,000 TPA, Anthracite - 1,10,000	NO ₂	Scrubber and Dust Collector system	100 ppm NO ₂ ≤ 50 ppm
7	Lime Kiln 5	68 m	TPA)		Scrubber and Dust Collector system	
8	Lime Kiln 6	68 m			Scrubber and Dust Collector system	

SR.NO.	Stack attached to	Height of the stack (m)	Expected Pollutant	APC System
1	Ammonia Recovery system	42 m	Ammonia	Water scrubber

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2	Lime grinding system / Slaker	65 / 20 m	PM / Water vapor	Bag filter / Adequate stack height
3	Calciner unit	37 m	РМ	Scrubber, Bag filter
4	Densification	43 m	РМ	Scrubber
5	Sodium Bi- Carbonate Unit	30 m	РМ	Bag filter
6	Lime Kiln	Closed system	РМ	Scrubber and Wet ESP

13. Details of Solid Waste/ Hazardous Waste Generation and Its Management:

Sr. No.	Type of Waste	Mode of Disposal			
1	ETP Sludge from treatment of effluent generated from captive power plant & RO/DM Plant	The effluent from power plant, RO/DM plant will require only neutralization & it will have negligible BOD/COD. Sludge will be disposed off in nearby landfill site.			
2	Used Oil / Used Cotton	It will be sold to MoEF&CC/CPCB registered recyclers only. Approx. 12 KL			
3	Discarded Drums	It will be sold to approve traders. Approx. 5 MT/yr			
5	Discarded Bags	It will be sent back to supplier for reuse.			
4	Spent Ion exchange resin	To be sold to authorized recyclers or will be incinerated at MoEF&CC/CPCB approved TSDF for which plant will obtain membership. Approx. 3000 l/yr			
5	Lead acid Batteries	It will be sold to authorized agency through auction.			
6	Ash (Fly ash & Bottom Ash) from Boiler	The Boiler ash will be used for cement Manufacturing/ Brick Manufacturing. Approx. 750 TPD			
7	Limestone rejects	It can be used in Boiler for desulphurization and as a sweetener in cement industry, road making, pavement etc. 5% of lime stone consumption.			

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8	Settled sludge	Since settled sludge, non-hazardous in nature, it is proposed to be disposed off in Nearby landfill site.
		proposed to be disposed off in Nearby fandfin site.

- 14. The Budget earmarked towards the Environmental Management Plan (EMP) is ₹ 205.07 crore (capital) and the Recurring Cost (operation and maintenance) will be about ₹ 6.98 Crore per Annum. Industry proposes to allocate ₹ 18.04 Crore towards CER.
- 15. The PP reported that Public Hearing for the Proposed project has been conducted by the State Pollution Control Board at the project site on **17.10.2022**. The main issues raised during the public hearing are related to the air pollutants, water pollutants, schedule 1 conservation plan, fishing, traffic etc.
- 16. The PP proposed to set up an Environment Management Cell (EMC) by engaging Environment officals for the functioning of EMC.
- 17. The PP submitted the Disaster and Onsite and Offsite Emergency Plans in the EIA report.
- 18. The estimated total project cost is **Rs 3550 Crores**. Total Employment will be **1200** persons as direct.
- 19. Intake pipeline and outfall pipeline fall in CRZ 1A, 1B and IV area as per demarcation. It was reported that construction of process plant and utilities fall outside the CRZ area. SCZMA recommendation has been obtained for Laying of Seawater Intake and effluent disposal underground pipeline through tunnel from unclassified Forest area, Sand dune area, intertidal area outside project boundary.
- 20. The Public Hearing earlier was scheduled to be held on 16-04-2022 at 11:00 Hrs, Venue: Project Site, Survey no. 432, Village: Bada, Taluka: Mandvi, District: Kutch, Public hearing was then time being postponed due to unavoidable circumstances. After that public hearing was completed on 17-10-2022 at 11.00 Hrs. Venue: Project Site, Survey no. 432, Village: Bada, Taluka: Mandvi, District: Kutch, Gujarat. Which was presided over by Shri Chetan Mishan(GAS), Sub Divisonal Magistrate & Deputy Collector, Mundra- Kutch. Public hearing Details as given below:

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S.No.	Issue related to	Nos. Issues	Concernin PH	GH(LLID) reply	Action Plan	FundRequired	Timeline	Responsibility
	CSR-Fodder	4	Steps to be taken for cattle Care about Makhari comunity Security regarding focker supply for livestock.	Fodderwill be provided as well as provision for veterinary doctor will be camied out by CHCL foundation under CSR activity.	 Activities for fodder supply will be canied out under CSR and CHR activities for strengthening the bord between the project authorities and the local population (refer Ch-8 and Table 10.4 in Ch-10). Fodder field will be developed on the Government/allocate land to nearbyvillages. Unit will do promotion through providing support for breed improvement, animal health care, fodder improvement and providing veterinary doctor in nearby villages under CHR and CSR activities for communities. During year 2020- 2021, CHL foundation has spent INR 9.03 Crores towards CSR activities. CSR projects/activities worth INR 1909 Cr. were implemented. CHL wide range of CSR projects have touched and benefitted more than 90,200 lives over the years. Promoting 	 As perMdEF&CC Office Mmmandum FNO. 22-67/2017-IAIII, MdEF&CC, New Delhi, dated on 1st May 2018 GHCL.Ltd has earmarked 0.5 % of capital investment (appro. Rs. 1804 core), towards the Coporate Environment Responsibility in 5 years GHCL Ltd will spend approx. 4.35 crone* towards Animal husbanday providing support for breed improvement, animal health care, Veterinary doctor and others as well as provides Fodder for cattle feeding nearby villages as per requirement under CER activities (* valuemaydefer as per actual requirement) 	5 years	CHCLLimited
2	Employment	5	For employment of local villagers Number of emplo yment opportunities to be Priority must be given to nearby 10 villages Regarding priority to nearby villages	Information on employment opportunities has given by Project Proponent that there are different types of employment opportunities in the two phase of the projects i.e. construction	• The proposed project has a potential for employment of skilled, semiskilled and unskilled employees during	• CHCL Ltd will spend approx. 2.25 crore towards Promoting activities for skill building to improve	During constructio n and Operation phase	GHCLLimited

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S.No.	Issue related to	Nos. Issues	Concernin PH	GHCLLIDreply	Action Plan	Fund Required	Timeline	Responsibi lity
			for labor work Regarcting ent communities. employm for local communities.	phase and operational phase of the project. CHCL will strive to provide these employment opportunities to the local people, for which work will be done for their skill development and employment opportunities will be provided to the local people. As per requirement, training will be given to local people in coordination with HR department. Priority will be given for employment of local people. In nearby villages a group of women can be formed so that they can work in Guhuchyogs (Home-based business). M/s. CHCL shall provide employment to women as per their skills and qualification.	 operational phase. The plant will create direct employment in phased manner for about 1200 (operational phase) skilled as well as semi-skilled staff and indirectly large number of unskilled manpower will be engaged for the project. For Employment, local people will get first priority asper suitability and requirement. People will also get employed by the contractors for various project related activities. (Refer Ch-8 of ElAneport) CHCL foundation will carry out skill development Pograme for local youth to improve their employment opportunities, women empowement under CSR and CHR activities. 	employment opportunities and women empowement in nearby villagesunder GPR activities.		
3	CSR-Health	1	Regarding health facilities under CSR activities	Will providemobile health van facility and upgradation of existing healt hcare infrastructure	 Industry will provide Mobile Health Care, Health Camps, and Specialized Check Up Camps in nearby villages. Necessary support and help will be extended for advanced diagnosis and treatment wherever identified, Free medical health checkup under CSR and CFR activities.(Refer Ch-8 of EIA report). We have already initiated mobile health van facility for nearby affected villages of project site. 	 CHCL Ltd will spend approx. 1.12 crore towards Infrastructure development Such as primary healthcare units and the fulfilment of the basic amenities in PHCs including mobile medical van and Provide Bala- Rasayana Malnutrition 		CHCL Limited
4	CSR-Education	3	Regarding scholarship under CSR activity Regarding skill development of youth and improvement of	Will build school in future as per requirement and will also upgrade the existing school infrastructure and will carry out	 Unit will be directed at two levels viz school and skill building to improve employment opportunities. At 	Childten in Aanganwadi and HTC of nearby Villages under CER activities. • CHCL Foundation	5 years	CHOL Limited

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S.No.	Issue related to	CmeminPH	GHCLLIDreply	ActionPlan	FundRequired	Timelin Responsibility e
		Conditions Toprovide educational facilities	skill development activities	 school level we intend to promote quality of education and learnability, develop infrastructure of Government schools provide vocational training as per the requirement under CSR and CHR activities. GHLL foundation will support local government and NGO to make that program more effective. GHLL foundation will cany out skill development Programme for local youth to improve their employment opportunities, women empowement under CSR and CHR activities. During year 2020-2021, CHLL Foundation has spent INR 903 Croses towards CSR activities. CSR projects have touched and benefitted more than 90,200 lives over the years. Promoting such activities like water conservation, Animal hyborchy, health care, SHG, Infrastructure development etc. 	towards Infrastructure development for quality of education, which will ultimately upgrade schools in nearby villages under CIR activities.	
5	Air Pollutants 6 (SOx, NOx, Dust.)	Regarding acid rain cause by Sox Emission of PM during transportation and Emission of	For minimizing Air Pollution, requisite height of the stacks will be provided as per the NAAQS norms. Besides this, Modern technology equipment's like Dust collector, Electrostatic Precinitator Souther with	• The best available technology-based pollution prevention and control shall used to meet the regulatory standards and these pollution control systems will be commissioned before		During CHCLLimited operati on phase

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S.No. Issue related to	Nos. Issues	Concernin PH	GHCLLIDreply	Action Plan	Fund Required	Timeline	Responsibility
		mercury. Regarding crice through cooling for 120MW. Regarding linkage of fuel and how they are going to use it	installed. As a result, the pollution level will be within standard limits. GHL will continue to support development of green belt in the suncurding villages through various agencies including GHCL Foundation (AF). GHCL shall endorses AF tree plantation movement of planting trees in entire Manchi Taluka and 50,000 trees that mentioned, GHCL shall surely nurture those plants for five years.	 commercement of operation of the project. Wherever possible, the control systems shall be interlinked with the operational units, so that failure of the control system shall shut down the respective operational unit. High efficiency ESPs shall be provided in the flue gas path of the OBC boilers for control of particulatematter. Finely ground limestone will be acted to the boiler conduction zone together with coal/lignite to anest the SO2 formed during conduction. Lime stone dozing system to the fumace to be designed to achieve higher than 90% capture of SO2. Monitoring system(CEMS) of air pollutants SO2, NOx, NHB, PMIO and PM25 will be implemented. So, the expected pollutants will be carried out on regular basis by approved agencies by CPBCSHOB. (refer Ch6 andCh-10otEIA report) CHCL will implement greenhelt /plantation program to ambient air quality. (refer Ch10otEIA report) There is negligible cooling water requirement for power generation. There is no any alternative effective systems available for socharsh plant. 	Stacks, Dry Fog system, Wind screen etc- 8928 crore recurring cost would include operation and maintenance of pollution control devices- 150 crore Finvironmental monitoring Programme capital cost include OCEMS, online weather stationetc-3.4 crore Recurring cost – 095 crore Greenbelt Capital Cost-20Crore RecurringCost-0.5 crore		

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S. No.	Issue related to	Nos. Issues	Concern in PH	GHCL LTD reply	Action Plan	Fund Required	Timeline	Responsibility
					• There is no readily avail infrastructure for transportation of fuel rail or water way. So, have to transport thro road. Traffic study shown in section 3.2.3 of chapter-3 impact due to transporta is show in 4.1.4.3 and 4 of Chapter-4 in EIA repor future, any alternative op available will explore.	i.e. we ugh are and tion .2.3 . In		
					• GHCL Foundation will promoting plantation activ in nearby villages under C and CER activities	ties		
6	Water pollutants (BOD,COD,Ammonia, Mercury, Sea Weed, Mangroves)	7	question by Koli society Regarding decrease in number of phytoplanktons and disruption of food chain	Effluent will be highly alkaline so it will be mixed with HCL and then it will be disposed off in sea. Design of structure will have done according to seismic zone V. In soda ash industry impact of ammonia is very low.	 recommendation Marine report. The water monitoring resof (surface and groundwand marine) should carefully evaluated identify significant change any, adverse change from baseline accordingly, correct measures will be taker ensure the sustenance of wa quality. However, there is ground water pollution envisage in such soda plant, The ammonia concentration 	and osal and osal on) per EIA ults ater be to s, if the cost would include ater cost cost cost cost cost cost cost cost	P 4 d	GHCL Limited

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S. No.	Issue related to	Nos. Issues	Concern in PH	GHCL LTD reply	Action Plan	Fund Required	Timeline	Responsibility
					 within the limit specified by CPCB for soda ash industry. There is no such fish kill cases due to treated effluent in existing plant. There are independent studies available which indicates there is no significant adverse impact on marine environment but there will be positive impact on environment. During studies, there is no such mangroves identified in sea water intake and outfall line area. Design of pipeline/tunnel will be done according to seismic zone V. In case of catastrophic failure/ liquification on land, there are no chances of flooding as water transport through gravity. 			
7	Marine Life	1	due to proposed	No adverse impact on fish or marine animals and sea weed observed.	industry should be ensured	 crore to be earmarked for the biodiversity management management plan to be implemented in the project area during construction phase and operation phase. For periodic monitoring of the marine area environment during project construction phase, a provision of Rs. 0.5 crore to earmarked. For operation phase, page 		GHCL Limited

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S. No.	Issue related to	Nos. Issues	Concern GHCL LTD reply in PH	Action Plan	Fund Timeline Required	Responsibility
				 impact on environment but there will be positive impact on environment. Design of pipeline/tunnel will be done according to seismic zone V. In case of catastrophic failure/ liquification on land, there are no chances of flooding as water transport through gravity. 		
8	Health & Hygiene(A mmonia Leakge)	2	Skin diseases due to Soda AshGHCL will take care of any such issues related to Health of local peoples and workers.Regarding the leakage of ammonia.All the necessary measures for handling of chemicals will be implemented to reduce its impact on health of peoples. This information is also provided in the EIA report. All the pockets will have leak detection and repair system technology. Moreover, periodical maintenance will also be carried out. GHCL will ensure that there will be no leakage and therefore, there will not be occupational health issues for workers or villagers working in the plant. Moreover, GHCL	latest instrumentation provision for pressure indication, temperature indication and level indication and level indication. The provision of instrumentation should be within 100 percent redundancy. Continues recording of major parameters pertaining to the storages shall be maintained in the control room. Unit will provide all the safety measure	 Capital cost During would operation include cost phase of OHS center, PPEs, fire & safety instruments , automation system for ammonia storage – 3.4 crore Recurring cost would include maintenanc e charges and training, audit & health check-up etc 0.35 	GHCL Limited

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S. No.	Issue related to	Nos. Issues	Concern in PH	GHCL LTD reply	Action Plan	Fund Required	Timeline	Responsibility
					commissioned befor e commencement of operation of the project. Wherever possible, the control systems shall be interlinked with the operational units, so that failure of the control system shall shut down the respective operational unit. There is no significant impact observed in the existing soda ash plants in Gujarat • There are rare possibilities of			
9	CSR - Farmers		How hygenic the plant will How hygenic will be bada plant and what facility will be	GHCL Foundation is already providing subsidy for drip irrigation and GHCL will also consider to support this scheme further out of the CSR funds proposed for this project. To help agriculture, GHCL will help farmers as part of our CSR activity in consultation with villagers. The details and type of developmental work will be decided in consultation with villagers. GHCL foundation has been working for farmers through its different schemes like ground water	Industry will Promote environment friendly and nature-based solutions to enhance productivity of farming (Organic Farming) activities. It covers capacity building on farming techniques, provision of high-quality seeds/manure, efficient irrigation solutions, etc. under CSR and CER activities	 GHCL Ltd will spend approx 3.00 crore towards Promoting environmen t friendly and nature- based solutions to enhance productivity 		GHCL Limited
10	EIA Report & PH		EIA report is not correct	recharge water harvesting The terrestrial EIA report	• It is requested to note that as			GHCL Limited

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S. No.	Issue related to	Nos. Issues	Concern in PH	GHCL LTD reply	Action Plan	Fund Required	Timeline	Responsibility
	advertisement		Regarding the alternative of site modhwa village. Regarding the NIO accreditation to prepare marine EIA report Regarding ToR granted and Study carried out prior of ToR granted. Regarding the advertisement of the PH Regarding NABET accreditation of consultant organization Regarding Marine EIA Regarding NEERI who has prepared EIA report Regarding the correction in EIA report Regarding the monitoring data collection Regarding accreditation	prepared by CSIR NEERI and Marine EIA report is prepared by NIO, Mumbai	perOM number17011/8/92-IA-III dated8thAugust, 2019, there are7institutes/agencies authorizedfor preparation of CZMPS in consonance with the provision of CRZ notification, 2019 vide GSRGSR37(e)dated 18/01/2019. IRS anna university Chennai has prepared the CRZ map for GHCL LTD. CSIR - NIO is Expert hired to carryout the Marine EIA study.•EIA report has been prepared by CSIR- NEERI, which is reputed governmental body and QCI NABET			
11	Vipassana	3	certificate of additional studies for ecology. Project site is near Vipassana meditation center The meditation center will be disturbed due to industry. Ammonia used in the industry. Related to presence of Vipassana center and other religious places in 15km radius of project site		 accredited consultant. Environmental Management Plan envisages the plans for the proper implementation of mitigation measures to reduce the adverse impacts. The EMP implementation will minimize the impact of atmospheric emissions, liquid effluents, solid wastes and noise generation on the surrounding environment. 	 Cost of Envir onm ent mana geme nt plant inclu ding vario us instal latio ns for 		GHCL Limited

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S. No.	Issue related	Nos. Issues	Concern in PH	GHCL LTD reply	Action Plan	Fund Timeline Required	Responsibility
	ta			•	ash manufacturing industry. It is reported in CSIR NEERI report that there are no significant impact expected on man-made sensitive installations and habitations. On basis of study of present environment condition near project area and impact prediction and control measures proposed by GHCL Ltd. The proposed project will not have any significant negative impact on environment. Company operations are limited to the plant boundary and no negative impacts on Vipassana Centre are anticipated. The company will have robust	Recurring Cost- 0.5 crore	
	CSR - Animal Husbandry	3	arrangement s for Animal Regardi ng distribut	GHCL Foundation • will support nearby community by providing education and livelihood support to make them self – reliant. •	peripheral Green Belt in Unit will do promotion through providing support for breed improvement, animal health care, fodder improvement and providing veterinary doctor in nearby villages under CER and CSR activities. Unit will also promote development Initiatives for Fishing Communities such as Creation of infrastructure like ice plants, cold storages as well as provide operational inputs such as fishing boats, nets and engines We have already provided veterinary doctor for	 GHCL Ltd will 5 years spend approx 4.35 crore towards Animal husbandry promotion through providing support for breed improvement, animal health care, Veterinary doctor and others as well 	GHCL Limited

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S. No.	Issue related to	Nos. Issues	Concern in PH	GHCL LTD	Action Plan	Fund Required	Timeline	Responsibility
13	Site Selection	2	Regarding the alternative of site modhwa village. Regarding showing presence of marshy land near coastline		During the site selection, the alternative sites considered for setting-up of the proposed chemical complex project are given below: : Site 1 – Village Pingleswar, Taluka – Abdasa, Dist. Kutch Site 2 – Village Suthri, Taluka – Abdasa, Dist. Kutch Site 3 – Village Bambhdai, Taluka – Mandvi, Dist. Kutch Site 4 – Village Bada, Taluka – Mandvi, Dist. Kutch Site 5 – Village Modhva, Taluka Mandvi, Dist. Kutch The site at village bada is considered favorable based on the environmental and logistic advantages over other four sites. Justification			GHCL Limited
14	Sand Dunes	2	Concern of presence of sand dunes at bada coast Regarding digging of sand dunes for preparation of tunnels for water intake		 There is no disturbance to existing sand dunes. Tunnelling work (much below ground level) for laying pipeline through sand dunes will be done by adopting proven construction methodology like micro tunnelling. The detailed Studies on sand dune mapping and morphological changes near the project site was carried by National Institute of 			GHCL Limited

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S. No.	Issue related	Nos. Issues	Concern in PH	GHCL LTD reply	Action Plan	Fund Required	Timeline	Responsibility
15	Turtle	3	Regarding presence of turtles on the coastline of bada Regarding information on endangered species not mentioned in EIA report Regarding hatching and presence of sea turtles		 Study on Status Survey and Conservation Plan for Sea Turtles along Mandvi Taluka, Bhuj, Gujarat by Zoological Survey of India, Kolkata (April,2019) is attached with EIA report. ZSI study report mention that they did not any encounter any sea turtle and fresh/old nests or crawl marks of turtles on the beach. Since many of the factor for selection of a suitable nesting site are not conducive. As per additional Ecological and Biodiversity study, suggests that the coast near the proposed project site may not be 	 Contribution to Forest department for Sea Turtle Conservation Activities- 0.20 crore 		GHCL Ltd
16	Schedule 1 species	4	Regarding presence of greater numbers of		• Details of	• the proposed	10 years	GHCL Ltd

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S. No.	Issue related to	Nos. Issues	Concern in PH	G HCL LTD reply	Action Plan	Fund Timelin Required e	Responsi bility
	Sandha and indian Monitor Lizard)		stated in report Presence of reptiles and amphibians not reported Related to study of presence of Indian Monitor Lizard in studv area Regarding presence of gugal trees,		 taking up wildli mitigation measure and for contribution to forest department for carrying out activitie towards propagatio protection an conservation of wildlife GHCL Ltd hav submitted Conservation Plan (Flap shell turth Green Sea turtle, India monitor lizard, Oliv Ridley Sea turtle, Blac shoulder kite, Eurasia Spoonbill, India Peafowl, Marsh Harrie Oriental Honey Buzzar 	conservation of Schedule 1 species for 10 years is 1.25 crore or es n, d d e. re n e, n, r, d, d	
17	Conservation Plan		Regarding conservation plan for <u>Schedule 1 species</u> Concern regarding green sea turtles and conservation plan for them		 Shikra, Short-toed Snake GHCL shall make financial allocations for taking up wildlife mitigation measure and for contribution of forest department for carrying out activitie towards propagatio protection and conservation of wildlife The unit have submittee Conservation Plan (Flashell turtle, Green Set turtle, Indian monited lizard, Olive Ridley Set turtle, Black shoulde kite, Eurasian Spoonbi Indian Peafowl, Marse Harrier, Oriental Hone Buzzard, Shikra, Shor toed Snake Eagl 	 the proposed 10 Years budget allocation allocation for conservation of Schedule 1 species for 10 years is 1.25 crore allocation species for 10 years is 1.25 crore 	GHCL Limited

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S. No.	Issue related to	Nos. Issues		GHCL LTD reply		Action Plan		Fund Required	Timeli ne	Responsibili ty
						department of				
18	Form 1(Water Bodies, Temples, Schedule 1 Species)	5	Regarding presence of waterbody not shown in form-1 Regarding religious places and lakes not mentioned in PFR Waterbody not mentioned in form-1 Data given in form-1 and EIA are different Waterbody not mentioned in form-1		•	Environmental settings are given in Chapter-1 and Chapter-5 of EIA report. Approximate distance of water bodies, temples etc are given in EIA report. Through drainage studies of the area, it was observed that there is one stream of 1st order entering the plant area from north. Although, it has small catchment area, it is proposed that this stream, will be diverted to nearby passing Vengadi River in the west. There are also pond inside the premises. It is	•	-Cost of drainage network of surface runoff rainwater collection pond and rain water harvesting system – 53 crores (included in EMP)		GHCL LTD
19	Govt. Land	3	Regarding type of land to be procured by the industrv Regarding status of government land to be procured Providing data for proving gauchar land		•	There is no gauchar land- within proposed project site. M/s GHCL has applied to Industries Commissioner and District Collector for allotment of aforesaid land. Industries Commissioner has granted In Principle approval for Bonafied Industrial Purpose. District Collector has initiated actions for	-			GHCL LTD
20	Fishing	8	Regarding details of Pagadia fisherman not mentioned and Marine EIA is misinterpreted			 Proper seawater intake and treated effluent disposal (ensure maximum) 	•	A provision of Rs. 1 crore to be earmarked for the	During constru ctio n and	GHCL LTD

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S. No.	Issue related to	Nos. Issues	Concern in PH	GHCL LTD reply	Action Plan	Fund Required	Timeline	Responsi bility
			Regarding disturbance to fishes due to presence of pipeline Regarding status of fishing near bada and Mandvi Related to number of fisherman not incorporated in study 		Marine EIA report prepared by NIO Industry should be ensured that the effluent released to the sea meets the prescribed GPCB/ CPCB norms at all times. This should be verified through tracer studies after the outfall becomes operational.	 project area during construction phase and operation phase. For periodic monitoring 	phase	
			Related to presence of dead fishes not reported in study, fishing carried out for commercial purpose Regarding presence of fisherman in study area		Details of Fishery and fishermen including their family and population are given in Chapter-3 of marine EIA report. Other than construction phase, there will be no any impact on pagadiya fisher men. As shore line will remain undisturbed.	of the marine area environment during project • construction phase, a provision of Rs. 0.5 crore to earmarked.		
					It is mentioned in marine EIA report that no large-scale commercial fishing operation prevail in the study area except for minor shore based and Gill net operations. There are independent studies available which indicates	 For operation phase, Rs. 0.3 crore per year to be kept provision for the monitoring. 		
					there is no significant adverse impact on environment but there will be positive impact on environment. Unit will also promote development Initiatives for Fishing Communities	GHCL Ltd will spend approx 0.75 crore towards Development Initiatives		
21	Water Body (check dams)		Related to presence of seasonal river which passes near bada village and presence of dam over it		including pagadiya under CER and CSR activities Through drainage studies of the area, it was observed that there is one stream of 1 st order	drainage		GHCL LTD

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S. No.	Issue related to	Nos. Issues	Concern in PH	GHCL LTD reply	Action Plan	Fund Required	Timeline	Responsibil ity
		dista	ted to ance of river a proiect site		entering the plant area from p north. Although, it has small has catchment area, it is proposed cu that this stream, may be E diverted to nearby passing Vengadi River in the west, which has two check dams, one for salinity ingress check and on upstream side for storing fresh water. This will not cause any adverse impact on the downstream. For channelizing the monsoon run off from the area adjacent to plant it is required to construct peripheral drain along plant boundary so that flooding is avoided and run off find its way to the natural slope towards Arabian Sea. So, the present hydrological setting of the area will remain unaffected. So, the present hydrological setting of the area will remain unaffected. The additional water enter into	arvesting system – 53 rores (included in	phase	
					the vengadi river through drainage will not impact on check dam. As any additional water above the river and check dam shall overflow to the Arabian sea.			
22	Traffic (R MH, Heavy Trucks, Road Usage)	truck proie Relat not r impa Conc road Rega	arding number of <pre></pre>		Traffic study are shown in section 3.2.3 of chapter-3 and impact due to transportation is show in 4.1.4.3 and 4.2.3 of Chapter-4 in EIA report. We will use existing road network as no other transportation i.e. rail/water ways are available. We have carried out calculation on			GHCL Limited

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S. No.	Issue related to	l Nos. Issues	Concern in PH	GHCL LTD reply	Action Plan	Fund 7 Requir ed	fimeline Re	sponsibilit
					Traffic study (Level of Service) and added on Form Part- C.			
23	CSR General	1		GHCL has proposed CSR budget in the EIA report which will be utilized based on need identification and village development meetings. CSR will be implemented with CSR implementing agencies including GHCL Foundation is working in following area. 1. Agro-livelihood and animal husbandry, 2. Education and skill development, 3. Health, water, and sanitation.	 GHCL's commitment towards the development of weaker sections of society has been a continuous initiative for more than two decades. Through its "GHCL Foundation Trust", GHCL has upgraded its CSR activities to cover a larger section of the society to provide support to the downtrodden, needy and marginalized citizens and also to create a social infrastructure for their sustenance. GHCL Foundation serves as the Corporate Social Responsibility arm of GHCL Limited and represents our commitment to the holistic development of our surrounding community. During year 2020-2021 		GH	CL LTD
S. No.	Issue related to	Nos. Issues	Concern in PH	GHCL LTD reply	Action Plan	Fund Required	Timelin e	Responsi bility
					Infrastructure d evelopment etc.			Unity
			Regarding pollution to be caused by industry Regarding to dusting due to kiln and power plant,			 Cost Environmen managemen plant including various installations 	t	GHCL Limited

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24	Pollution and Environmen t General	4	Related to disposal of effluent water	Unit will follow all the rules and regulation with their subsequent amendments as directed by concerned authorities	•	impacts. The EMP implementation will minimize the impact of atmospheric emissions, liquid effluents, solid wastes and noise generation on the surrounding environment	Air Pollution, Water Pollution, Noise Control, Greenbelt Development, Occupational Health and Safety and other related activities 205.07 crore	
25	Forest area	2	Related to distance of project site from forest <u>area</u> Details regarding families dependent on forest	There is no classified forest area.	•	There is no forest land within the boundary of proposed project site. However, some part of the unclassed forest area located south of the project site outside boundary. Sea water intake and outfall pipeline will pass through underground micro tunnel in specific corridor to cross forest area. The permission from the Forest Department is		 GHCL LTD

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S. No.	Issue related to	Nos. Issues PH	GHCL LTD reply	Action Plan	Fund Required	Timeline	Responsibility
				of 0.9689 Ha. of un-class forest			
26	Supporting for Industrial Development to GHCL LTD	For Employment For Infrastructure development in nearby village Social upliftment towards nearby villages Health facilities Women empower ment Skill	GHCL LTD t eam thanked f or welcoming the industries				
	Total	94					

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21. The Proposal was considered in the 72nd **EAC Meeting held on 2.1.2024** wherein the EAC deferred the proposal for want of requisite information. Reply to the same was submitted by the PP vide letter dated 30.1.2024, which is as follows:

S. N 0.	Queries Raised by EAC	Reply by PP								
	Action plan for disposal of gypsum	The Fly Ash and Gypsum generated from the Desulphurization plant is provided in the below table followed by the Action Plan for the Disposal of Fly Ash and Gypsum.								
	and fly ash generated from desulphursa tion plant	SR. NO.	FUEL	FUEL CONSUMPTION TPH	FLY ASH GENERATION, TPD	GYPSUM GENERATION, TPD	TOTAL GENERAT TPD			
	117.457 880.924	796.588 2726.847								
		741.519	1389.667							
		 While utilization of Coal as fuel the percentage of Fly ash and Gypsum in the total Ash generated will be 50.87% and 14.74% respectively. While utilization of Lignite as fuel the percentage of Fly ash and Gypsum in the total Ash generated will be 28.08% and 32.31 % respectively. While utilization of Pet coke as fuel the percentage of Fly ash and Gypsum in the total Ash generated will be 0.77% and 53.36 % respectively. It is noted that gypsum and fly ash separation is not possible in the dry desulfurization system. However we assure that the unit will primarily use Coal and Lignite as fuel. Pet coke will only be utilized as a fuel alternative in the circumstances when Coal and Lignite are unavailable. Action Plan For The Disposal Of Fly Ash And Gypsum Letter From Cement Industry is submitted. 								
	Action plan for management and disposal	Augement Main source of CaCl ₂ and CaSO ₄ Contain wastewater will be from distillation proce								

MoM of 74^{th} EAC Meeting (Industry-3 Sector) held on 6^{th} February, 2024

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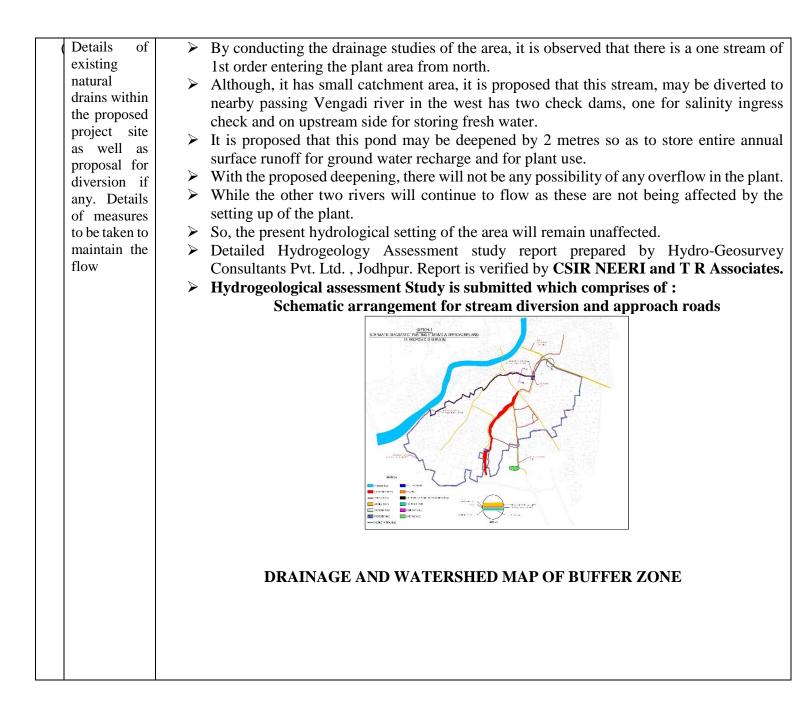
PLA NT REJ ECTATION REJECTWAST EOWN OWNUGH COOL R FOR INGWATE EFFLU DILUT DILUT DISCH ARGE POINT*EFFLUENT QUANTITY, m³/day97,162,55027,0001208,07,005,14,6714,48,50	S R. N O.	PARAME TERS	WAST RO/D M	TEWATER S BRINE PURIFIC				FRES H SEA	ithin the CPCB impact on the S COMPO
			PLA NT REJ ECT	ATION REJECT	WAST E	OWN	UGH COOL	WATE R FOR DILUT	EFFLU ENT AT DISCH ARGE
97,16 2,550 27,000 120 8,07,00 5,14,67 14,48,50	EFFLUENT QUANTITY, m ³ /day								
			97,16		-	-			
0 0 8 8 1 pH 7.2 12 9.8 10.0 8.0 7.5 6.5-9.0							0	8	8

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		2	Temperatu	30-	30-35°C	95°C	90°C	30-	30-	Will not
			re	35°C				35°C	35°C	exceed
										5°C
										above the
										ambient
										temperat
										ure of the receiving
										water
										body
		3	Suspended	Nil	54,000	45,430	100 mg/l	Nil	Nil	<1000
			Solids		mg/l	mg/l	0			mg/l
					C	U				C
		4	Ammonica	Nil	Nil	40-45	Nil	Nil	Nil	< 50 mg/l
			l Nitrogen			mg/l				
		5	Oil &	Nil	Nil	Nil	Nil	Nil	Nil	< 5.0
			Grease							mg/l
										(Occasio
										nally)

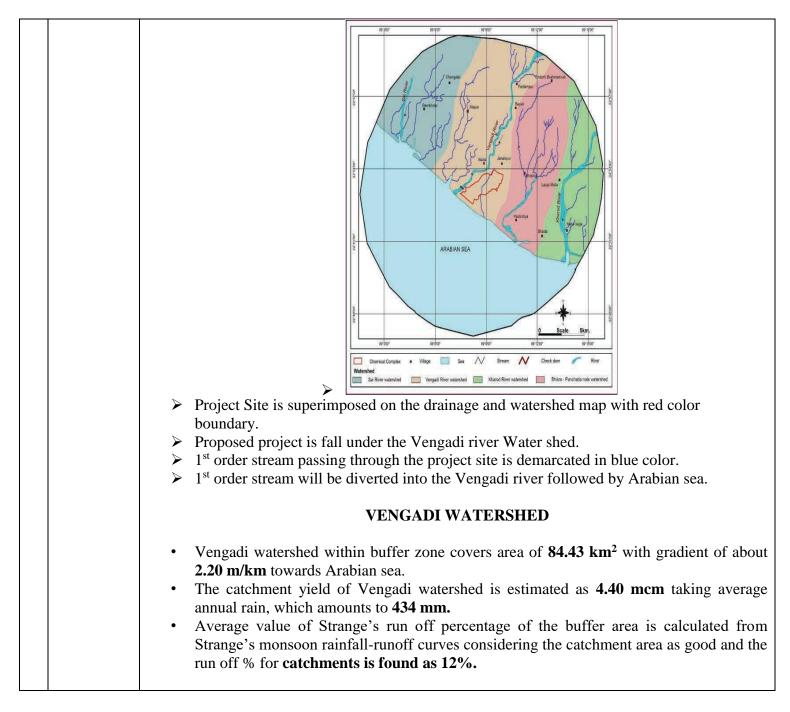
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Dicken Dicken QP = C Where, $Q_P = H$ A = Ca	I's formula 's formula states that CA ^{3/4} igh flood or peak dis tchment area	scharge in cumec	en calculated by Dic	ken's formula metho
	constant, taken c = 6 K FLOOD DISCHA	for the study area. RGE (QP) IN CUM	IECS	
S. NO.	STREAM	TOTAL CATCHMENT AREA (KM ²)	DICKEN'S	LEAN PERIO DISCHARGE (CUMEC)
1.	Sai river	194.89	312.96 cumecs	0cumec
2.	Vengadi river	160.80	270.93 cumecs	0cumec
3.	Bhisra-Panchatia nala	63.92	135.63 cumecs	0cumec
4.	Kharod river	329.52	464.04 cumecs	0cumec
Dicken Dicken Where, $Q_P = H$ A = Ca C = A	I's formula I's formula states that igh flood or peak dis tchment area = 0.12 constant, taken c = 6	t: $\mathbf{QP} = \mathbf{CA}^{3/4}$ scharge in cumec km ²		ken's formula metho

S. NO	. CATCHMENT	DICKEN'S	LEAN PERIOD DISCHARGE (M ³ /S)
1.	Plant stream	1.22 m ³ /s	0 m ³ /s
	The cost incurred for the	AL DRAIN DIVERSION he Drainage network and Nala on he Environmental Management	diversion will be 44.60 Crores. Plan cost.

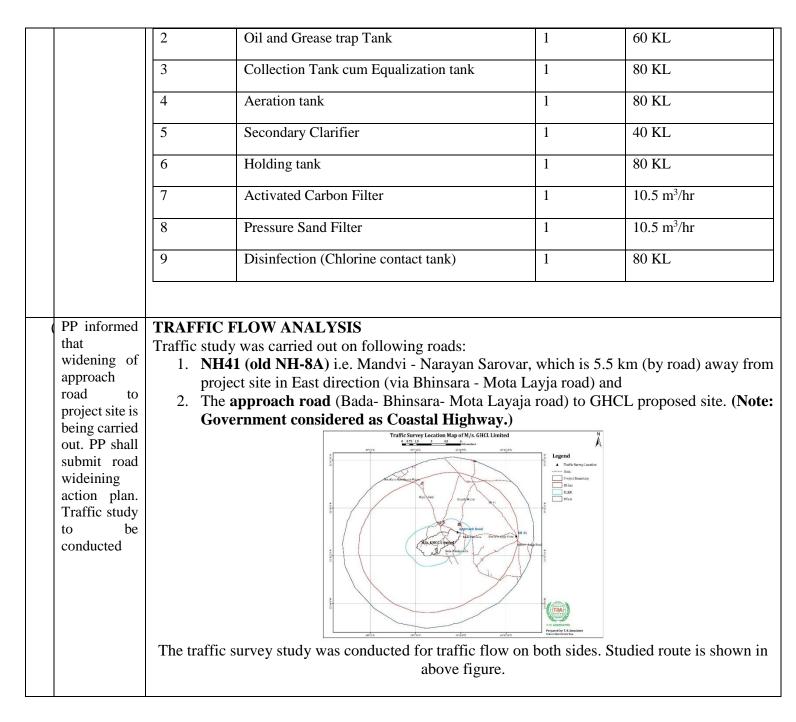
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Status of land acquisition including government and pvt. land as well as	 The Status of land acquisition including Government as well as Private land along with permission for land use change for industrial purpose has been received from Industry Centre. The type of land involved along with the area bifurcation into Government and private land. 						
permission for landuse	SR. NO.	TYPE OF LAND	AREA (SQ. M.)				
change for industrial purpose.	1	Government Land	10,16,351				
	2	Private Land	48,06,632				
	3	Private Land with NA permission	1,72,473				
	Total 59,95,456 M/s. GHCL Limited has applied for Environmental Clearance (EC) for plot ar admeasuring 54,63,200 sq. mt.						
It was observed that baseline study was conducted during December 2019 – February	 It is 06-2 prop Proj The was 8.6. prep 	isition letter is submitted. requested to note that as per OM F.No. IA3- 2022 baseline data should not be older than the posal for the grant of Environmental Clearance ect proponent have submitted EC proposal of baseline period was December 2019 to Febr up to December 2022. M/s GHCL informed 2022 for validity of baseline data, wherein it paration of EIA/EMP report may be collected ore the grant of TOR. In this case, they have r	ree years at the time of submission of ce (EC). In Parivesh portal dated 30-11-2022. ruary 2020 and the baseline data valid I that baseline data is line with OM da is mentioned that baseline data used d at any stage of the EC process or ev				

As per OM, PP shall conduct fresh 3 months study	 However, M/s GHCL had already appointed T. R. Associates for conducting the 3-month Baseline Monitoring in November 2022. The Baseline study was conducted during the period December, 2022 to February, 2023 and it is incorporated in Addendum of EIA Report submitted on 1.02.2024. Baseline details is submitted.
It was noted that EIA - EMP report is prepared by NEERI,	The authorization letter dated 10.01.2024 for engaging T.R. Associates, a QCI/NABET accredited consultant for the Soda Ash Industry, to verify and check the entire data and the EIA-EMP report prepared by NEERI. Further, M/s T.R. Associates has undertaken site visit and examine the existing EIA-EMP report.
which is not QCI /NABET accredited consultant for soda ash. PP informed that now T R Associate has been hired for the proposed project who is a QCI /NABET accredited consultant for soda ash. The Committee suggested that new consultant shall undertake site visit and verify/check the entire	 T. R. Associates vide letter dated 30.01.2024 have undertaken the task of visiting and thoroughly checking the entire data of the EIA-EMP report provided by NEERI. Additionally, it is important to note that T.R. Associates has subsequently prepared an Addendum to the EIA report. .

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data as well									
as EIA -									
EMP report.									
They should									
give									
undertaking									
that they are									
satisfied									
with data									
and own the									
data									
provided in									
the EIA-									
EMP report.									
PP shall also									
submit									
authorizatio									
n letter for									
new									
Consultan									
Revised	Revised wate	r balance is submitted.							
water		l processing of domestic wastewater occurs in	a Sewage Treatme	nt Plant (STP) with a focus					
balance to be		ilizing treated water for plantation and Greenb							
submitted.		wastewater undergoes preliminary treatment in							
STP's		se Trap tank to capture extraneous and floating							
treatment		equently, the sewage is directed to a Collection							
process shall		goes equalization processes.		qualization tank, where it					
include		 The equalized sewage is then pumped for secondary treatment in an Aeration tank and Secondary 							
secondary	Clarifier, with the clear supernatant being collected in a holding tank.								
treatment	 Further as polishing treatment the effluent is passed through a two-stage process, involving a 								
treatment	Pressure Sand Filter (PSF) and an Activated Carbon Filter (ACF).								
		completion of the polishing treatment, the tre		dargoos disinfaction before					
				dergoes distillection before					
	 being employed for landscaping and gardening purposes. The biological sludge generated during the treatment process is directed to a sludge drying bed, 								
	SR. NO.	the resulting treated sludge utilized as manure NAME OF THE UNITS							
	SK. NO.	NAME OF THE UNITS	NO. OF						
		Den Concen		UNIT					
	1	Bar Screen	1	10.5 m ³ /hr					



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	Traff Traff GHC Traff Road PP re mino	fic Count D fic Count D CL Ltd is su fic Count D I) to M/s. G ported that r increase	Data existin Data Existin Ibmitted. Data after p HCL Ltd it can be co in vehicula	ng - NH-41 [] ng-Approacl proposed pro is is submitt procluded that ar load due to	Narayan Sar h Road (Bad oject - Appro ed. even for com o the Propose	sidering the wo	lvi is submitte Mota Layja R ada- Bhinsara orst case; there	ed Road) to M/s. 1- Mota Layja e will be
Air quality modeling for line source shall also be incorporate and	A	Point Sou	urce.			on to perform A	-	-
cumulative impact of line and point source shall provided	Sr. No	Fuel	% Ash	% Sulphur	% Nitrogen	SO2 Emission rate, g/s	NOx Emission rate, g/s	PM10 Emission rate, g/s
	1	Coal	16.08	0.77	1.13	1.94	69.9	4.75
	2	Lignite	20.26	3.85	0.39	14.45	38.17	4.92
	3	Pet coke	0.61	7	1.77	12.16	74.91	4.57

Sr. No.	Process		NH3 Emissi rate, g/s	on
1		ecovery system	1.04	
2	Filtration/Ca	lcination Vent	0.52	
► T	ne emission rate	es were calculated cons	sidering followin	g efficiencies of Air Pollution
	ontrol Measures		U	
SR. NO	. APCM		Efficiency of APCM (%	
1	Dust Collec	tor		60 %
2	Bag filter		92%	
3	Scrubber			95%
4	Desulfuriza Bicarbonate	tion system and injecti	ion of Sodium	99.7%
5	Electrostati	c Precipitator (ESP)		99.99%
The incre below Ta		Incremental Con PM10, SO2, N	•	on of different fuels are given i Incremental Concentratio SO ₂ (μg/m ³)
		Γ 10110 (μg/m)		
1	Coal	1.01		0.220
1	Coal	1.21		0.229
1 2 3	Coal Lignite Pet coke	1.21 1.23 1.19		0.229 1.71 1.44

Sr. No	Monitori ng Location	Distanc e (km)	Directio n	Existing monitored maximum PM ₁₀ Concentrati on (µg/m ³)	Maximu m GLC from Point Source (µg/m ³)	Maximu m GLC from Line Source (µg/m ³)	Total PM ₁₀ Concentrations (µg/m ³)
1	Panchotiy a*	3.00	SE	81.53	1.23	1.3	84.06
2	Bada	0.34	NW	76.56			79.09
3	Bhinsara	2.28	Е	68.99			71.52
4	Bhada*	5.68	SE	83.48	-		86.01
5	Mota Layja	7.00	NNE	59.73	-		62.26
6	Padampur	5.25	NNW	68.74	-		71.27
7	Mapar	5.09	NNW	65.94	-		68.47
8	Bambhada i	7.11	NW	72.99	-		75.52
9	Dedhiya	9.97	NNW	58.68			61.21
10	Nana Layja	7.25	ESE	81.98			84.51
	remains w	ell within idering th	the NAAQ e worst cas	se scenario the			

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Sr. No	Monitorin g Location	Distanc e (km)	Directio n	Existing monitored maximum SO ₂ Concentratio n (µg/m ³)	Predicted SO ₂ Concentratio n (µg/m ³)	Total SO ₂ Concentration s (µg/m ³)
1	Panchotiya *	3.00	SE	15.6	1.71	17.31
2	Bada	0.34	NW	14.82	-	16.53
3	Bhinsara	2.28	Е	13.68		15.39
4	Bhada*	5.68	SE	16.92		18.63
5	Mota Layja	7.00	NNE	8.25		9.96
6	Padampur	5.25	NNW	12.92	-	14.63
7	Mapar	5.09	NNW	11.78		13.49
8	Bambhadai	7.11	NW	10.94		12.65
9	Dedhiya	9.97	NNW	9.85	1	11.56
10	Nana Layja	7.25	ESE	17.38	1	19.09
	remains we	ll within th g Worst Ca	e NAAQS.	scenario the cum the cumulative		

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Sr. No	Monitori ng Location	Distanc e (km)	Directio n	Existing monitored maximum NO ₂ Concentrati on (µg/m ³)	Maximu m GLC from Point Source (µg/m ³)	Maximu m GLC from Line Source (µg/m ³)	Total NO ₂ Concentratio ns (µg/m ³)
1	Panchotiy a*	3.00	SE	38.88	9.50	7.59	55.97
2	Bada	0.34	NW	33.67	-		50.76
3	Bhinsara	2.28	Е	31.81	-		48.9
4	Bhada*	5.68	SE	41.49			58.58
5	Mota Layja	7.00	NNE	22.71	-		39.8
6	Padampur	5.25	NNW	30.38	-		47.47
7	Mapar	5.09	NNW	33.62			50.71
8	Bambhada i	7.11	NW	28.45	-		45.54
9	Dedhiya	9.97	NNW	25.65			42.74
10	Nana Layja	7.25	ESE	36.43			53.52
well	within the NA In addition 21), howev software, c	AAQS , Baseline er increm onsidering	concentrati ental conce ; worst case	ario the cumula on of NH3 foun entration is fou scenario cumul NAAQS, 2009.	d at all the l nd 2.39 μg / lative ammo	ocations are m³ by using	B.D.L(D. L - AERMOD

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	 Baseline concentration of CO found at all the locations are B.D.L(D. L - 0.5 mg/m³), however Maximum GLC from Line Source is found 4.81 µg/m³ by using AERMOD software, considering worst case scenario cumulative CO concentration is well within the stipulated norms of NAAQS, 2009. Baseline concentration of HC (Benzene and Benzo alpha Pyrene) found at all the locations are B.D.L(D. L - 1 mg/m³ of Benzene and D. L - 1 ng/m³ of Benzo alpha Pyrene), however Maximum GLC from Line Source is found 0.31 µg/m³ by using AERMOD software, considering worst case scenario cumulative HC concentration is well within the stipulated norms of NAAQS, 2009.
(As per point source air quality modeling, incremental levels of SO2 and NOx have been estimated to be 10.98 μ g/m ³ and 11.37 μ g/m ³ , which are in higher side. PP shall reduce the incremental values after taking suitable pollution control measures	PP reported the same reply as mentioned in the above row.
Villages are located 500- 600 m away	 The nearest village Janakpur is located at 0.55 km and project site village Bada is at 0.58 km from the proposed project site boundary.

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from the project site. PP shall elaborate various	 Moreover, the unit will install adequate Air pollution control equipment to abate the air pollution arising from the manufacturing unit. Also, the effluent generating from the unit will be properly disposed into deep sea which will not impose any risk to soil/land/ground water pollution. The Solid/Hazardous waste will be efficiently collected, stored and disposed to 						
measures to be taken for the surrounding villages	 TSDF/CHWIF site or sold to registered recyclers or reused within premises. Additionally, the unit will develop dense greenbelt all around the periphery of the project site. The unit will provide acoustic hood at highly noise generated equipment's as well as 						
	 acoustic building to abate the noise pollution generating from the process and machineries. The unit will also carry out various CSR activities for the upliftment of the surrounding villagers 						
 (Details representatio ns received by SPCB/MoE F&CC agains the project, if any. Action plan to address the issues raised in writted/repre sntations received by SPCB /MoEF&CC 	 The Public Hearing was scheduled to be held on 16-04-2022 at 11:00 Hrs, Venue: Project Site, Survey no. 432, Village: Bada, Taluka: Mandvi, District: Kutch, Public hearing was then time being postponed due to unavoidable circumstances. After that public hearing was completed on 17-10-2022 at 11.00 Hrs. Venue: Project Site, Survey no. 432, Village: Bada, Taluka: Mandvi, District: Kutch, Gujarat. Which was presided over by Shri Chetan Mishan (GAS), Sub Divisional Magistrate & Deputy Collector, Mundra- Kutch. The public hearing was attended by 106 people. Total 1154 written questions (representation received by GPCB) and 1066 verbal questions were asked by people in public hearing that we have summarized in 94 Concerns and it will further identified in 26 different head to address Public Hearing Action Plan. The Action Plan Addressing the Written & Verbal Questions Received During Public Hearing is Submitted 						
Details of issues raised by local	The issues raised by local fishermen have been addressed in the Public Hearing Action Plan						
fishermen if any. Action plan to	CONCERN IN PH ACTION PLAN FUND REQUIRED RESPONSIBILITY						
address the said issues.							

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	Unit will also promote development Initiatives for Fishing Communities including Pagadiya under CER activities. For the Development Initiatives for Fishing Communities Unit will provide 1 Crore Rupees.	1.0 crore towards Development Initiatives for Fishing Communities including Pagadiya under CER activities.	
Copy of stage I forest Clearance and SCZMA recommenda tions	Copy of stage I forest Clearance and stage II and SCZMA recommendations has been obtained vide letter ENV/10/2021/184/T-cell dated 26.12.2023.		
Commitmen t for Disaster Management Plan in case of Tsunami, earthquake and cyclone to be prepared and submitted to the respective authority.	 Detailed Disaster Management Plan has been submitted. Additional Studies of the Environment Impact Assessment Report prepared by CSIR-NEERI. Disaster Management Plan of Tsunami, Earthquake and Cyclone has been prepared and will be submitted to Director Industrial Safety and Health (DISH) after getting EC from the Concerned authority. Report is also submitted to MOEF&CC. Disaster management plan is submitted. 		

22. Deliberations by the EAC:

After detailed deliberations, EAC desired the following additional information:

- (i) The Committee was of the view that PP shall compare the baseline data collected during December -February 2020 and data collected during December 2022 -February 2023. Accordingly, PP shall also carry out trend analysis of previous baseline data by conducting latest additional one-month baseline data.
- (ii) The Committee noted that several representations have been received from various level of public raising several issues. The Committee was of the view that representations shall be forwarded to the PP for their response. The Committee also recommended that in the next meeting they will go through the video of proceedings of public hearing. The Committee will go through the response of PP then decide further course of action accordingly.

Accordingly, proposal was deferred for want of above additional information. Above all additional information shall be submitted online to the PARIVESH portal for further consideration by EAC.

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List of the Expert Appraisal Committee (Industry-3) members participated during Video Conferencing (VC) meeting held on 06.02.2024

S. No	Name of Member	Designation
1.	Prof. (Dr.) A.B. Pandit	Chairman
2.	Dr. Suresh Panwar	Member
3.	Dr. (ER.) Dibakar Swain	Member
4.	Shri Dinabandhu Gouda	Member
5.	Dr. Kishore Malviya	Member
6.	Dr. P. Jagannadha Rao	Member
7.	Shri Dinesh Runiwal,	Member
8.	Prof. (Dr.) Suneet Dwivedi	Member
9.	A N Singh	Member Secretary
MOEFC	2	
1.	Dr. Kanchan Puri	Scientist-B
2.	Dr. S. Pradeep kumar	Scientist-B

MOM approved by

moht

(Prof. Aniruddha B. Pandit) Chairman ***

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