

COMPLIANCE OF CONDITIONS GIVEN IN ENVIRONMENT CLEARANCE No. : IA-J-11011/901/2007-IA-II(I) dated 11.04.2022 - FOR AMALGAMATION OF ENVIRONMENTAL CLEARANCES AND EXPANSION/AMENDMENT OF PLANTS IN EXISTING GSFC COMPLEX

Sr. No.	Conditions	Compliance Status (Period Apr '24 to Sep '24)
A	SPECIFIC CONDITION	
(i)	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP and other Reports in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	<p>Will be complied for SA-V.</p> <p>EMP :</p> <p>SA-V Plant: The wastewater generated in SA-V will be re used in Phosphoric Acid Plant. Display of SO2 concentration to GPCB / CPCB office through SCADA will be done. Impaction type candle filter, containing about 5 nos. of candles, will be provided in outlet of Final Absorption Tower (FAT) outlet to curb acid mist. Caustic scrubber will be taken in line during plant startup. Outlet of Caustic scrubber will be diverted to Plant Stack. SO2 sensors will be provided to detect SO2 leakage, if any.</p> <p>Complied for AS-IV Plant: Effluent generated from AS-IV Cooling tower blow down is recycled to Melamine-III RO plant and from which 108 KLD RO treated water is generated and utilized in cooling and boiler purpose. Cyclone separator provided to recover AS dust going along with Process gas to atmosphere. Recovered dust is diverted to process.</p> <p>Complied for TGU: No additional water requirement and no additional sewage and effluent generation as TGU is amalgamation of Melamine – III and Urea Plants.</p> <p>Risk assessment study has been undertaken to identify the Hazard and preparation of mitigation. All measures are already adopted as per the guideline. A separate EMP cell, Fire & Safety cell and Occupational Health Centre are provided in the plant for compliance of Environmental management plan.</p> <p>Following conclusions and recommendations provided during risk assessment are:</p> <ul style="list-style-type: none"> • The safety measures and emergency actions being taken for risk and associated hazards are adequate and are being followed properly. • On-site and off-site emergency action plan should be regularly followed and complied. • Regular mock-drills should be done, and the assessment should be done via audits. • Provision of ammonia detectors/sensors at strategic locations in the

		<p>common corridors should be maintained.</p> <ul style="list-style-type: none">• Other hazardous pipelines (acid/hazardous materials/inflammable materials) should be located away with all safety measures.• Regular hazard survey should be done to ensure detection of leakage in the plant. <p>Various PPES, Fire extinguishers, safety showers, first aid boxes (filled) & air masks, Gas masks etc. are provided at various Hazardous installations.</p>																
(ii)	The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	<p>Complied. A detailed information on carbon reduction is as under;</p> <table><tr><td></td><td>Basis</td><td>Total power generation</td><td>Carbon reduction</td></tr><tr><td>Wind power (2023-24)</td><td>1MT CO2 = 1396.648 KWh</td><td>171541119.8 kWh</td><td>122823.45 MT of CO2 reduction</td></tr><tr><td>Solar Power (2023-24)</td><td>1MT CO2 = 1396.648 KWh</td><td>18702946.91 KWh</td><td>13391.31 MT of CO2 reduction.</td></tr><tr><td>Tree Plantation</td><td>40 trees reduce 1 T of CO2</td><td>Total 202633 nos. Of trees in GSFC.</td><td>5065.82 MT of CO2 reduction.</td></tr></table>		Basis	Total power generation	Carbon reduction	Wind power (2023-24)	1MT CO2 = 1396.648 KWh	171541119.8 kWh	122823.45 MT of CO2 reduction	Solar Power (2023-24)	1MT CO2 = 1396.648 KWh	18702946.91 KWh	13391.31 MT of CO2 reduction.	Tree Plantation	40 trees reduce 1 T of CO2	Total 202633 nos. Of trees in GSFC.	5065.82 MT of CO2 reduction.
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(iii)	The treated waste water will be discharged to common effluent channel of M/s. Vadodara Enviro Channel Limited (VECL) for final discharge at confirming to the standards prescribed under the Environment (Protection) Rules, 1986. Total 741.8 KLD process effluent being generated from Urea, Melamine-I/II, AS-I & II will be directly discharged to Phosphoric Acid Plant.	<p>Complied. Average quantity of industrial effluent discharged to VECL for April '24 to Sept '24 is 9492 KLD against the limit of 13637 KLD.</p> <p>For the year 2023-24, total 575 KLD effluent generated from Urea, Melamine-I/II, AS-I & II is discharged and re used at PA Plant.</p>																
(iv)	<p>Total fresh water requirement shall not exceed 35732.45 KLD will be met from 4 no. of French wells sourced from Mahi River. Necessary permission obtained in this regard shall be renewed from time to time.</p> <p>The fresh water demand shall be reduced by using roof top rain water harvesting system to the maximum possible extent and by using tertiary treated sewage of Vadodara Municipal Corporation (VMC) in phased manner from 2024.</p>	<p>Complied. GSFC is withdrawing water from its own French wells located in Mahi river for operation of the plants. GSFC got permission for 29.00 MLD drawl of water from Vadodara Irrigation Division (VID) for the year 2024-25 vide letter no. J.N.Versiv/PB-1/GSFC-Vadodara /Annual Qty. Reser./Year 2024-25/433 dated 28/02/2024. As per agreement of GoG, +/-25% beyond permissible limit is allowed on annual basis without any penalty. Avg. water drawl for the period April '24 to Sept '24 is 25.14 MLD for GSFC Vadodara complex.</p> <p>GSFC has installed Roof top rainwater harvesting in GSFC's Corporate building, A block, ADC, R&D, Central Lab, SDO, Officer Punching & Mechanical Store building. @ 12743 m3 of rainwater is collected during April '24 to Sept. '24 and re used for fire water make up.</p>																
(v)	The unit shall comply with all the EC conditions/Safeguards/Mitigation measures, as mentioned in existing ECs. Except the A1. Specific	Complied.																

	condition of EC granted for setting up of new melamine plant vide no. SEIAA/GUJ/EC/5(f)/228/2016 dated 31st March 2016 which shall be read as Molten Urea (Intermediate Product of OGT section of Melamine-III) will be partly/completely used for production of Technical grade Urea or Melamine as per market demand. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	
(vi)	The PP shall implement all the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for fertilizers industries.	Complied with relevant CREP points pertaining to fertilizer industries.
(vii)	The project authorities shall install efficient scrubbing system to control emission and bag filters and other modern technologies for dust control in the plant.	Complied. AS-IV: Cyclone separator is provided. SA-V: Candle filters will be provided as scrubbing system. During startup, Caustic scrubber will remain in line to scrub SOx and to maintain SOx within permissible limit. TGU: Since the TGU is amalgamation of Melamine – III and Urea Plants, there is no additional stack for the same.
(viii)	No banned raw materials/chemicals shall be used in the unit. The project proponent shall adhere to the notifications/guidelines of the Government in this regard.	Complied. No banned raw materials/chemicals is used in the unit. GSFC follows the notifications/guidelines of the Government in this regard.
(ix)	The continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.	Complied for TGU & AS-IV. Continuous online monitoring system for AS-IV plant is installed and data is available in DCS system as well as connected to GPCB and CPCB servers. Since the TGU is amalgamation of Melamine – III and Urea Plants, there will be no additional stack for the same. The existing stacks of Urea and Melamine are equipped with CEMS and connected to GPCB and CPCB servers. Will be complied for SA-V. Continuous online monitoring system for SA-V will be installed. Apart from above, effluent from other manufacturing facilities of premise is treated and discharged to common effluent conveyance channel of M/s VECL with real time effluent monitoring. Hence as a part of effluent discharging unit, online continuous effluent monitoring system has been installed as per prevailing guideline.
(x)	The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Integrated Regional Office of Ministry and SPCB along with the compliance report.	Complied. TGU: There is no storage of toxic/hazardous materials. SA-V is not started yet and hence same will be taken care after plant operation. AS-IV: Toxic and hazardous storage is not applicable for AS-IV.

(xi)

The occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers.

Complied. GSFC has a fully fledged 25 bed hospital with various facilities like central oxygen facilities (24x7), first aid boxes (125 no.). The hospital posses fully equipped indoor facilities like the following:

- Digital X-ray
- Full fledged Physiotherapy
- ECG multi parameter, defibrillator ventilator
- Fully equipped advanced laboratory
- Advanced Pharmacy
- ICU Beds, Sterilized Dressing Pad
- First responder facilities with splint, eye wash bottles, safety shower
- Emergency communication

Regular health check-up (six monthly) of employees is carried out by Occupational Health Centre located within premises. Records are maintained at OHC. Month wise summery of employees who underwent periodical and pre medical examination and tests/investigations carried out during medical examination are given below.

Periodical Medical Examination details for compliance period April '24 to Sept '24:

Month	Periodical Medical Examination numbers		
	Employees	Contract worker	Total
April-24	180	14	194
May-24	229	22	251
June-24	222	121	343
July-24	203	43	246
Aug-24	254	70	324
Sept.-24	236	201	437
Total	1324	471	1795

Pre-Medical Examination details:

Month	Pre-medical Examination numbers
April-24	0
May-24	0
June-24	5
July-24	0
Aug-24	4
Sept.-24	13
Total	22

All workers & employees shall be provided with required safety kits/mask for personal protection.

All workers & employees are provided necessary safety kits/mask for personal protection.

- (xii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.

Complied. Regular training on safety and health aspects are organized by safety department. Health awareness information is regularly circulated by Medical Dept.

Safety & Health training imparted to workers/employees during April '24 - Sept '24 by Safety department is as under;

Month	Training Topic	Nos. of members present
April-24	Safety Site Talk	314
	Induction class room safety training	04
	Pre shutdown Safety training	20
	Fire Fighting training	55
May-24	Safety Site Talk	151
	Transport Safety	54
	PPA & BA set demo.	37
	Class room safety training	67
June – 24	Safety Site Talk	529
	Class room safety training	62
	Transport Safety	28
July – 24	Safety Site Talk	219
	Tool box talk	08
Aug-24	Safety Site Talk	214
	Work permit system	89
	Haz. Property of Chemicals, Electrical and Mechanical Safety	89
	Safety during working in Confined Space, Emergency Preparedness	89
	Safety during work at height, and Types of PPEs	89
	Fire Safety & Practical	89
Sept. -24	Safety Site Talk	107
	Transport Safety	9
	Work permit system	39
	Haz. Property of Chemicals, Electrical and Mechanical Safety	39
Sept. -24	Safety during working in Confined Space, Emergency Preparedness	39

			Safety during work at height, and Types of PPEs	39
			Fire Safety & Practical	39
(xiii)	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.	Complied for AS-IV: Fire-fighting system as per norms for present operation is in place and being maintained Will be complied for SA-V. Fire-fighting system as per norms for present operation is in place and being maintained in existing complex. Additional Fire-fighting installations for SA-V shall be installed during construction phase and before commissioning of plant.		
(xiv)	Necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents.	Complied. All necessary safety precautions are in place along with work permit system and SOP which are being followed for avoiding accidents.		
(xv)	The solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.	Complied. The said measures for solvent management are followed for the existing complex. No solvent is used for the AS-IV, SA-V and TGU project.		
(xvi)	The volatile organic compound (VOCs)/Fugitive emissions shall be controlled at 99.97% with effective chillers/modern technologies.	Complied. The volatile organic compound (VOCs)/Fugitive emissions are controlled at 99.97% with effective chillers/modern technologies in the existing complex. No volatile organic compound (VOCs) is used for the AS-IV, SA-V and TGU project.		
(xvii)	The storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.	Complied. GSFC has installed Roof top rainwater harvesting in GSFC's Corporate building, A block, ADC, R&D, Central Lab, SDO, Officer Punching & Mechanical Store building. @ 12743 m3 of rainwater is collected during April '24 to Sept. '24 and re used for fire water make up. Rain water recharges structure located outside the factory premise. Necessary precaution is taken to ensure the process effluent/any wastewater does not get mixed by storm water.		

(xviii)	<p>The company shall undertake waste minimization measures as below</p> <p>a) Metering and control of quantities of active ingredients to minimize waste;</p> <p>b) Reuse of by products from the process as raw materials or as raw material substitutes in other processes.</p> <p>c) Use of automated filling to minimize spillage.</p> <p>d) Use of Close Feed system into batch reactors.</p> <p>e) Venting equipment through vapour recovery system.</p> <p>f) Use of high-pressure hoses for equipment clearing to reduce wastewater generation.</p>	<p>Complied for AS-IV:</p> <ul style="list-style-type: none"> • Metering and control of quantity of raw material is provided. • No by products are generated at AS-IV. • Automated filling machine is provided at AS-IV Bagging. • High pressure hoses of process condensate are used for equipment cleaning, used process condensate is recycled as feed <p>Complied for TGU. TGU is amalgamation of Melamine – III and Urea Plants</p> <p>Will be complied for SA-V project.</p>																		
(xix)	<p>The green belt of at least 5-10 m width shall be developed in nearly 40 % of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map. Trees have to be planted with spacing of 2m x 2m and number of trees has to be increased accordingly. The plant species can be selected that will give better carbon sequestration and plantation shall be started from first year onwards.</p>	<p>Complied. The total area of premises was 328 ha. Out of which 0.65 Ha. was diverted for Bullet Train Project and hence total area is 327.35 ha. The green belt area is 133.35 Ha which is 40.73 % of total plot area in which 7.46 Ha. has been developed in GSFC owned land in Ranoli, Vadodara.</p> <p>Total 187133 number of trees/plantation available in existing Green Belt (GB) in GSFC complex and 15500 numbers of trees/plantation available in existing GB in Ranoli Kotar land.</p> <table border="1" data-bbox="1173 802 1968 1086"> <thead> <tr> <th>Sr. No.</th><th>Particulate</th><th>Total Area (Ha)</th></tr> </thead> <tbody> <tr> <td>1</td><td>Green Belt (In Plant)</td><td>39.84</td></tr> <tr> <td>2</td><td>Green Belt (Township)</td><td>86.05</td></tr> <tr> <td>3</td><td>Green Belt in Ranoli (Kotar land), Nandesari</td><td>7.46</td></tr> <tr> <td></td><td>Total GB area (40.73%)</td><td>133.35</td></tr> <tr> <td></td><td>Total area</td><td>327.35</td></tr> </tbody> </table>	Sr. No.	Particulate	Total Area (Ha)	1	Green Belt (In Plant)	39.84	2	Green Belt (Township)	86.05	3	Green Belt in Ranoli (Kotar land), Nandesari	7.46		Total GB area (40.73%)	133.35		Total area	327.35
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(xx)	<p>The activities and the action plan proposed by the project proponent to address the socio-economic issues in the study area, shall be completed as per the schedule presented before the Committee and as described in the EMP report in letter and spirit.</p>	<p>Complied. The project is providing more benefits both to environmental and socio-economic aspects as per given below;</p> <ul style="list-style-type: none"> ✚ To gain income and upsurge the turnover of GSFC. ✚ Ease the availability of chemical fertilizers to farmers. ✚ Generating direct and indirect employment opportunities, which benefits the local people during Construction period that would help in decrease of migration. ✚ A business opportunity to the local people is available. ✚ Improve the economy of the local nearby vendors. ✚ The Project shall contribute towards local training and employment programmes. 																		

		There will be some boost to the state's business sector, including manufacturing, construction, transport, engineering, and related consultancies.																																																																												
(xxi)	A separate Environmental Management Cell (having qualified person with Environmental Science/ Environmental Engineering/ specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Complied , GSFC has separate environment cell and fully fledged laboratory facilities for environment management and monitoring. EMC details like name of persons, designation, and technical qualification along with parameter wise equipment available for in-house monitoring are listed below. EC Dept. Staff list:																																																																												
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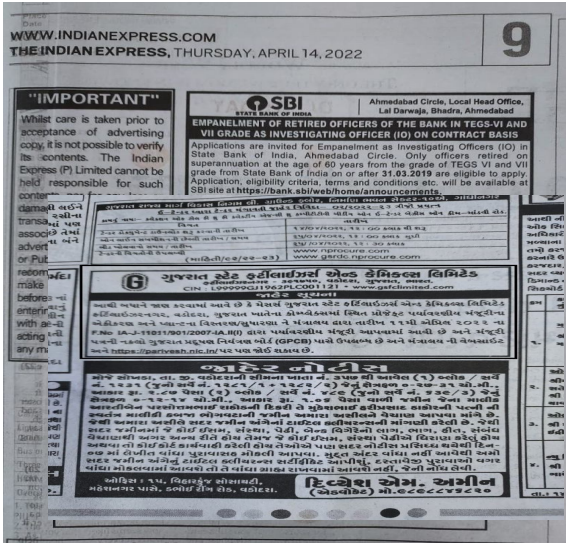
		<table><tr><td></td><td></td><td></td><td>(Chemistry)</td></tr><tr><td>19</td><td>MB Kharachia</td><td>Sr. Operator</td><td>SSC</td></tr><tr><td>20</td><td>K C Dave</td><td>Sr. Operator</td><td>B. Sc (Chemistry)</td></tr><tr><td>21</td><td>A B Shukla</td><td>Foreman</td><td>ITI</td></tr><tr><td>22</td><td>M R Chandlekar</td><td>Foreman</td><td>ITI</td></tr><tr><td>23</td><td>S A Christian</td><td>Foreman</td><td>HSC</td></tr><tr><td>24</td><td>H G Pandey</td><td>Foreman</td><td>12th</td></tr><tr><td>25</td><td>MM Parmar</td><td>Foreman</td><td>SSC</td></tr><tr><td>26</td><td>Jayesh Solanki</td><td>Foreman</td><td>Old SSC</td></tr><tr><td>27</td><td>Bhavesh C Patel</td><td>Operator</td><td>M.Sc (Indus. Chem)</td></tr><tr><td>28</td><td>Biren R Patel</td><td>Jr. Operator</td><td>M.Sc. (Env), PDIS, Cert. (Dis.Mgmt)</td></tr><tr><td>29</td><td>Purvish S Shah</td><td>Jr. Operator</td><td>M.Sc. (Env), Cert. (Dis. Mgmt)</td></tr><tr><td>30</td><td>Jayesh S Patel</td><td>Attendant</td><td>Bsc. (Chem.)</td></tr><tr><td>31</td><td>Bhavdip S Vamja</td><td>Assistant Operator</td><td>B.Sc Chemistry</td></tr><tr><td>32</td><td>Gami Ravi kumar</td><td>Assistant Operator</td><td>B.Sc Chemistry</td></tr><tr><td>33</td><td>K K Mahida</td><td>Asst.Operator (OC)</td><td>Dip. (Chemical)</td></tr></table> <p>* Total 12 nos. of workmen available.</p> <p>Fully fledged laboratory along with equipment are also set up to carry out environment monitoring and management functions.</p>				(Chemistry)	19	MB Kharachia	Sr. Operator	SSC	20	K C Dave	Sr. Operator	B. Sc (Chemistry)	21	A B Shukla	Foreman	ITI	22	M R Chandlekar	Foreman	ITI	23	S A Christian	Foreman	HSC	24	H G Pandey	Foreman	12th	25	MM Parmar	Foreman	SSC	26	Jayesh Solanki	Foreman	Old SSC	27	Bhavesh C Patel	Operator	M.Sc (Indus. Chem)	28	Biren R Patel	Jr. Operator	M.Sc. (Env), PDIS, Cert. (Dis.Mgmt)	29	Purvish S Shah	Jr. Operator	M.Sc. (Env), Cert. (Dis. Mgmt)	30	Jayesh S Patel	Attendant	Bsc. (Chem.)	31	Bhavdip S Vamja	Assistant Operator	B.Sc Chemistry	32	Gami Ravi kumar	Assistant Operator	B.Sc Chemistry	33	K K Mahida	Asst.Operator (OC)	Dip. (Chemical)
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(xxii)	The close loop solvent recovery system with adequate condenser system shall be provided to recover solvent vapours in such a manner that recovery shall be maximum and recovered solvent shall be reused in the process within premises (i.e. there is in-house solvent recovery and in-house distillation).	Complied for the existing complex. Not applicable for expansion projects as no solvent is used in the process																																																																
(xxiii)	The Leak Detection and Repair (LDAR) program shall be prepared and implemented as per the CPCB guidelines. LDAR Logbook shall be maintained.	Complied. Various gas detectors/sensors for Ammonia, Hydrocarbon, VOCs and Chlorine are installed in existing plants, In case of leakage, same actuates and alarm appears in control room. Such leakages are isolated and repaired. Details of LDAR in the logbook is maintained.																																																																

(xxiv)	The Unit shall explore the possibilities for environment friendly methods for disposal of Incinerable & landfillable waste before sending to CHWIFT/TSDf sites respectively.	Noted. GSFC will make efforts for exploring environment friendly methods for disposal of wastes before sending to TSDf/CHWIF.
(xxv)	All measures shall be taken to prevent soil and ground water contamination.	Noted.
(xxvi)	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to the Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted and directives shall be followed in case of alterations in the project proposal
(xxvii)	The PP shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.	<p>Complied. GSFC has installed Roof top rainwater harvesting in GSFC's Corporate building, A block, ADC, R&D, Central Lab, SDO, Officer Punching & Mechanical Store building. @ 12743 m3 of rainwater is collected during April '24 to Sept. '24 and re used for fire water make up.</p> <p>Rain Water Harvesting System exists at the Guest House, Science Foundation Building and Township's residential areas with well water recharging, Roof Top Rain Water Harvesting and Rain water harvesting ponds. Further to this, GSFC has constructed 15 water harvesting structure (Recharge well & Furrat system) in phase manner in 2009 & 2012. The filtrations rate is in the in the range of 65-70 M3/ Hr. of each wells. Ponds have also been dug out to store the rain water runoff and percolate the same.</p>
(xxviii)	The committee deliberated the Onsite and Offsite Emergency plan and various mitigation measures to be proposed during implementation of the project and advised the PP to implement the provisions of the Rules and guidelines issued under the Manufacture, Storage and Import of hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996. Necessary approvals from the Chief Controller of Explosive and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.	Complied for all applicable rules and guidelines. Onsite and Offsite Emergency plan and Requisite On-site and Off-site Disaster Management Plans are prepared and implemented.
(xxix)	The project proponent shall comply with the environment norms for 'Fertilizer Industry' as notified by the Ministry of Environment, Forest and Climate Change, vide GSR	Complied.

	608(E), dated 21.07.2010 under the provision of the Environment (Protection) Rules, 1986.	
(xxx)	The project proponent shall comply with the environment norms for Organic Chemical Industry as notified by the Ministry of Environment, Forest and Climate Change, vide GSR 608(E), dated 21.07.2010 under the provision of the Environment (Protection) Rules, 1986.	Complied.

B	GENERAL CONDITIONS																																										
(i)	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted and directives shall be followed in case of alterations in the project proposal.																																									
(ii)	The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts.	Complied. All applicable rules and guidelines shall be strictly followed.																																									
(iii)	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	Complied. For 2023-24, @ 1400 various types of conventional lighting fittings were replaced by latest LED type of fittings for saving of power besides upgradation of lighting system.																																									
(iv)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Complied. Presently, Noise monitoring is carried out at different locations within GSFC premises and at ambient air monitoring stations. Details (Max., Min along with comparison with standards) are given below and are in the norms. Noise Level for compliance period April'24 – Sept '24: <table><tr><th rowspan="2">Location</th><th colspan="3">Noise Level, Limit-75 dB(A) Daytime</th><th colspan="3">Noise Level, Limit-70 dB(A) Night time</th></tr><tr><th>Avg</th><th>Min</th><th>Max</th><th>Avg</th><th>Min</th><th>Max</th></tr><tr><td>Nr Marketing Yard</td><td>61</td><td>48</td><td>74</td><td>56</td><td>42</td><td>70</td></tr><tr><td>Nr Adm. Building</td><td>58</td><td>46</td><td>70</td><td>53</td><td>40</td><td>66</td></tr><tr><td>B/H SA-IV</td><td>58</td><td>44</td><td>70</td><td>54</td><td>42</td><td>66</td></tr><tr><td>Vadnagar Tank Farm</td><td>51</td><td>40</td><td>62</td><td>48</td><td>39</td><td>58</td></tr></table>	Location	Noise Level, Limit-75 dB(A) Daytime			Noise Level, Limit-70 dB(A) Night time			Avg	Min	Max	Avg	Min	Max	Nr Marketing Yard	61	48	74	56	42	70	Nr Adm. Building	58	46	70	53	40	66	B/H SA-IV	58	44	70	54	42	66	Vadnagar Tank Farm	51	40	62	48	39	58
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(v)	The company shall undertake all relevant measures for	Complied , it is ongoing activity. Details are given below.																																									

	improving the socioeconomic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration. The company shall undertake eco developmental measures including community welfare measures in the project area for the overall improvement of the environment.	CSR Expenditure incurred from April '24 – Sept '24: <table><tr><th>Sr.</th><th>Details</th><th colspan="2">Amount Rs.</th></tr><tr><td>1</td><td>Education</td><td colspan="2">27,87,800</td></tr><tr><td>2</td><td>Drinking Water Facility</td><td colspan="2">12,62,086</td></tr><tr><td>3</td><td>Other Local activities</td><td colspan="2">82,26,205</td></tr><tr><td colspan="2">Total</td><td colspan="2">1,22,76,091</td></tr></table>			Sr.	Details	Amount Rs.		1	Education	27,87,800		2	Drinking Water Facility	12,62,086		3	Other Local activities	82,26,205		Total		1,22,76,091	
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(vi)	<p>The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein.</p> <p>The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.</p>	<p>Complied. The company has granted approval of total Rs. 291.47 Crores (i.e for AS-IV:110.69 Cr, SA-V: 298.2 Cr and TGU: 0.18 Cr) as a total project cost for execution of expansion project.</p> <p>The fund earmarked to implement the conditions will be utilized for intended purpose only.</p> <p>Cumulative Expenditure incurred over last 3 years are given below.</p> <p>Past three year investment in pollution control:</p> <table><tr><th>Description</th><th colspan="3">Expenses in lakhs</th></tr><tr><td></td><th>Till 2021-22</th><th>Till 2022-23</th><th>Till 2023-24</th></tr><tr><td>Investment in Pollution control</td><td>4198.58</td><td>4198.58</td><td>4198.58</td></tr><tr><td>Total Investment</td><td>521036.12</td><td>528422.48</td><td>539630.49</td></tr></table> <p>Budget is prepared every year for the expenses to be carried out by Environment Control dept.</p>			Description	Expenses in lakhs				Till 2021-22	Till 2022-23	Till 2023-24	Investment in Pollution control	4198.58	4198.58	4198.58	Total Investment	521036.12	528422.48	539630.49				
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(vii)	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	Not Applicable																						

(viii)	The project proponent shall also upload/submit six monthly reports on Parivesh Portal on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective Integrated Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.	Noted & is being done regularly.
(ix)	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted 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 clearance conditions and shall also be sent to the respective Integrated Regional Office of MoEF&CC by e-mail.	Complied. Last Environment Statement submitted to GPCB vide letter EC/IMS/ES/10/2023-24 dtd.14.06.2024 for the year 2023-24. EC compliance status along with Form – V are put in website and regularly mailed to IRO.
(x)	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/Committee and may also be seen at Website of the Ministry and at https://parivesh.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 shall be forwarded to the concerned Regional Office of the Ministry.	Complied , GSFC has published advertisement of Env. Clearance in local newspapers i.e. Indian Express & Sandesh newspapers on 14/04/2022. The copy of same is forwarded by letter no- EC/ Amalgamation of EC & Expansion of projects/Adv./2022 14/04/2022 to MoEFCC Gandhinagar. on dated IRO- <u>Published</u> are as: 

(xi)	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 start of the project.	<p>Will be complied for SA-V. SA-V Project was approved on 07.02.2023.</p> <p>Complied for TGU & AS-IV: Commissioning date: 05/02/2022.</p> <p>TGU: Final Approval - CTO obtained from GPCB dated 20/12/2022.</p> <p>Date of starting Plant: 20/12/2022.</p> <p>AS-IV: .Project was approved on 29.01.2021 by Board of Directors. Final Approval - CTO obtained from GPCB dated 14/03/2024..</p> <p>Date of starting Plant: 14/03/2024.</p>
(xii)	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	<p>Will be complied for SA-V.</p> <p>Complied for TGU for AS-IV.</p>

Monitoring Report

DATA SHEET

No.	Conditions	Compliance (April '24 to Sept '24)		
1.	Project type: River-valley / Mining/ Industry/Thermal/Nuclear/Others(specify)	Industrial		
2.	Name of the Project	Amalgamation of Environmental Clearances and Expansion/Amendment of Plant in existing GSFC complex at P.O Fertilizernagar, Tal & Dist: Vadodara, Gujarat-391750		
3.	Clearance letter(s) OM No. and date	IA-J-11011/901/2007-IA-II(I) dated 11.04.2022		
4.	Location a) District (s) b) State (s) c) Location/ Latitude / Longitude	Gujarat State Fertilizers & Chemicals Ltd. P.O. Fertilizernagar - 391750, Vadodara Gujarat		
		Point	Latitude	Longitude
		A	22°23'15.59"N	73° 8'37.76"E
		B	22°22'49.97"N	73° 8'11.38"E
		C	22°22'25.01"N	73° 8'19.54"E
		D	22°22'2.48"N	73° 9'42.67"E
		E	22°21'51.48"N	73° 9'30.91"E
5.	Address for Correspondence	Mr. K S Badlani, Sr. Vice President (I&MB, U&EC, PLM & FU) & MR		
	a) Address of the Concerned Project Chief Engineer (with Pin Code & Mob. No/Telephone/ Telex/ E-mail) b) Address of concerned Project Engineer (with Pin code & Mob No / Telephone/ Telex/ E-mail)	P.O.: Fertilizernagar - 391750, Tal. & District : Vadodara, State : Gujarat Mo. no. :9909965842; email: ksbadlani@gsfcltd.com Mr P R Shah, Sr Vice President (Project Development) P.O.: Fertilizernagar - 391750, Tal. & District: Vadodara, State: Gujarat Mo. no. :9909965889; email: prshah@gsfcltd.com		

6.	<p>Salient Features</p> <p>a) of the Project</p> <p>b) of the Environmental Management Plans</p>	<p>a) AS-IV Plant: Looking to the growing global demand of Ammonium Sulphate as a fertilizer and its synergy with existing business of the Company, the facility for making 400 MTPD Ammonium Sulphate</p> <p>b) SA-V: Sulphuric Acid is a main raw material for production of Phosphoric Acid for further production of DAP/NPK/APS/AS. Apart from this, steam generated from Sulphuric acid plant will be utilized for steam requirement of the complex; hence its synergy with existing business of the Company.</p> <p>c) TGU: Technical Grade Urea from surplus available capacity of OGT section. Technical Grade Urea from surplus available capacity of OGT section</p> <p>SA-V Plant: The wastewater generated in SA-V will be re used in Phosphoric Acid Plant. Display of SO₂ concentration to GPCB / CPCB office through SCADA will be done. Impaction type candle filter, containing about 5 nos. of candles, will be provided in outlet of Final Absorption Tower (FAT) outlet to curb acid mist. Caustic scrubber will be taken in line during plant startup. Outlet of Caustic scrubber will be diverted to Plant Stack. SO₂ analyzers will be provided to detect SO₂ leakage, if any.</p> <p>AS-IV Plant Effluent generated from AS-IV Cooling tower blow down is recycled to Melamine-III RO plant and from which 108 KLD RO treated water is generated. Cyclone separator is provided to recover AS dust going along with Process gas to atmosphere. Recovered dust is diverted to process.</p> <p>TGU: There is no additional water requirement and no additional sewage and effluent generation as TGU is amalgamation of Melamine – III and Urea Plants.</p>
7.	Production details during compliance period and (or) during the previous financial year.	<p>AS-IV: 22275 MT during April '24 to Sept '24.</p> <p>SA-V: Expected period of commissioning and start-up is by February -2025.</p> <p>TGU: 16215 MT during April '24 to Sept '24. 35627 MT for the year 2023-24.</p>
8.	<p>Breakup of the Project Area</p> <p>a) Submergence area : Forest & Non-Forest</p> <p>b) Others</p>	<p>Not Applicable</p> <p>Project is located in existing premises.</p>
9.	<p>Breakup of the project affected population with enumeration of those Losing Houses/ Dwelling Units only, Agricultural Land only, Both Dwelling Units & Agricultural Land & Landless Laborers/ Artisans :</p> <p>a) SC, ST / Adivasi</p> <p>b) Others</p>	None (Project is within existing Factory Complex area)

	(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out and give details & year of survey)	
10	<p>Financial Details :</p> <p>a) Project Cost as originally revised estimates and the year of price reference.</p> <p>b) Allocation made for environmental management plans 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 (c) includes the cost of environmental 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 environmental management plans so far.</p>	<p>AS-IV:</p> <p>a) Rs. 110.68 Crs.(revised cost as per AMS approval in Feb-2022)</p> <p>b) Rs. 44 lacs.(As per DPR carried out in March - 2021) for EMP.</p> <p>c) IRR : 10.37 as per board approval in Jan - 2022 (Revised Project cost and RM & AS prices (avg. for 4.5 years i.e. FY 2017 to Oct. 2021)</p> <p>d) Yes</p> <p>e) Actual Expenditure as on Oct-2023: Rs. 73.493 Cr.(Rs. 72.253 Cr already spent and Rs. 1.24 Cr. committed.)</p> <p>f) Actual expenditure on EMP as on March.-2024. : Rs. 46.02 Lacs.</p> <p>SA-V:</p> <p>a) Rs. 298.2 Crores (As per –approval from Board of Directors in February 2023)</p> <p>b) Allocation under EMP of Rs. 5.78 Crores (As per details submitted for Mist eliminator, Analyzer, Scrubber and analyzers for online pollutant measurement system March - 2021)</p> <p>c) IRR : 16.39% (As per approval from Board of Directors in February 2023)</p> <p>d) Yes</p> <p>e) Actual Expenditure as on Oct. 2024: Rs. 82.37 Crores for Engineering, Procurement, Inspection, Store Management, Erection, construction, etc.</p> <p>f) Actual expenditure on EMP for 2023-24: NIL. It will be initiated as per the progress of the project.</p> <p>TGU: Rs 18.0 Lacs. Existing facilities is being used.</p>
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 clearing felling.</p> <p>c) The status of compensatory afforestation, if any.</p> <p>d) Comments on the viability & sustainability Of compensatory afforestation program In</p>	Not applicable.

	the light of actual field experience so far	
12	The Status of Clear Felling in non-forest Area (such as submergence area or Reservoir, approach roads), if any with Quantitative information required.	Not applicable as project area is located within Factory Complex area.
13	Status of Construction (actual and/ or planned) a) Date of commencement (Actual and/or planned) b) Date of completion (Actual and/or planned)	AS-IV & TGU : Plant is in operation SA-V: a) Planned: August - 2023 b) Planned Revised : February – 2025
14	Reason for the delay if the project is yet to start	SA-V Project is under execution stage.
15	Dates of Site Visits a) The dates on which the project was monitored by the Regional Office on previous occasions, if any b) Date of site visits for this monitoring report.	Dy. Director -MoEF, Bhopal visited GSFC complex on 23.06.2021. IRO-Gandhinagar visited on 12.05.23.
16	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. (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)	--

Current Status. :

AS-IV : CTO is obtained on 14.03.24. Plant is in operation.

TGU: TGU is amalgamation of Melamine – III and Urea Plants. Plant is under operation.

SA-V : Basic and detail engineering documents are received from M/s ISGEC and will be received in phase-wise manner and documents are under review / discussions / finalized. Civil, Mechanical & Electrical construction activities at site are in progress. Erection of major Equipment are completed