

Project Name: Expansion of Fertilizer Plant by M/s Gujarat State Fertilizers & Chemicals Ltd at Fertilizer Nagar, District Vadodara (Gujarat) - Environmental Clearance - reg.

EC No.: J-11011/901/2007- IA II(I) dated 06.03.2019.

EC Compliance report for period: October '21 to March '22.

Date of start of production: 02.04.2019

Production for period Oct. '21 to March '22:

Month	Actual Production (MT)
Oct-21	12140
Nov-21	11970
Dec-21	11340
Jan-22	12590
Feb-22	12080
Mar-22	13180
Total Prod. (MT)	73300
Prod. Quantity as per consent	146000 MTPA

COMPLIANCE OF ENVIRONMENTAL CLEARANCE CONDITIONS OF 146000 MTPA AS-I EXPANSION PROJECT

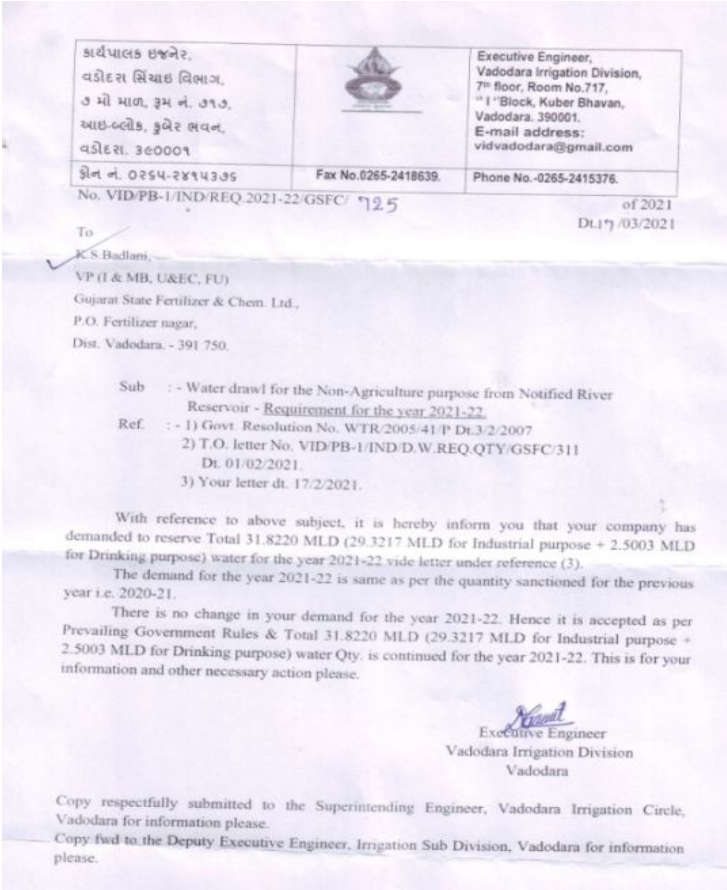
Ref.: PROPOSAL No. : IA/GJ/IND2/80904/2007 dated 17/10/2018

Sr. No.	Condition	Compliance Status (Period Oct '21 to March'22)																																																												
1 to 8 & 9(i)	Conditions 1 to 8 & 9(i) are general conditions.																																																													
9 (ii).	<p>The treated effluent of 13662 cum/day shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, for discharge into deep sea through M/S Vadodara Enviro Channel Limited (VECL)</p>	<p>Complied. Avg. Quantity of treated effluent of 10634 cum/day (Oct '21 to March.'22) conforming the standard prescribed under EP Rules 1986 is discharged to sea through M/S Vadodara Enviro Channel Limited (VECL).</p> <p>Analysis of final discharged effluent is carried out daily in in-house laboratory and through NABL approved lab, M/s. Ecosystem Resource Management Pvt. Ltd. (NABL Certificate No: TC-6603, Validity: 14/11/2022). Avg. results for the period Oct'21 to March '22 are within the permissible limit given by GPCB. Details (Parameter wise max. Min. & Avg.) are given below in tabular format.</p> <p>Analysis results of final discharged effluent done by external NABL approved lab (min, max, avg and comparison with GPCB norms):</p> <p><u>For Compliance Period Oct'21 to March '22:</u></p> <table border="1"> <thead> <tr> <th align="center">Parameters</th> <th align="center">UNIT</th> <th align="center">Permissible Limit</th> <th align="center">Avg</th> <th align="center">Min</th> <th align="center">Max</th> </tr> </thead> <tbody> <tr> <td align="center">pH value</td> <td align="center">-</td> <td align="center">6.5 to 8.5</td> <td align="center">7.41</td> <td align="center">7.17</td> <td align="center">7.73</td> </tr> <tr> <td align="center">Colour</td> <td align="center">Pt.Co.</td> <td align="center">100</td> <td align="center">49</td> <td align="center">33</td> <td align="center">87</td> </tr> <tr> <td align="center">S.S</td> <td align="center">mg/l</td> <td align="center">100</td> <td align="center">43</td> <td align="center">32</td> <td align="center">54</td> </tr> <tr> <td align="center">COD</td> <td align="center">mg/l</td> <td align="center">250</td> <td align="center">187</td> <td align="center">162</td> <td align="center">233</td> </tr> <tr> <td align="center">BOD</td> <td align="center">mg/l</td> <td align="center">100</td> <td align="center">49</td> <td align="center">38</td> <td align="center">63</td> </tr> <tr> <td align="center">Oil & Grease</td> <td align="center">mg/l</td> <td align="center">10</td> <td align="center">1.2</td> <td align="center">1</td> <td align="center">1.70</td> </tr> <tr> <td align="center">Ammonical Nitrogen</td> <td align="center">mg/l</td> <td align="center">50</td> <td align="center">11.3</td> <td align="center">8.2</td> <td align="center">15.3</td> </tr> <tr> <td align="center">Ph.compounds</td> <td align="center">mg/l</td> <td align="center">1</td> <td align="center"><0.1</td> <td align="center"><0.1</td> <td align="center"><0.1</td> </tr> <tr> <td align="center">Fluorides</td> <td align="center">mg/l</td> <td align="center">1.5</td> <td align="center">1.1</td> <td align="center">0.8</td> <td align="center">1.40</td> </tr> </tbody> </table>	Parameters	UNIT	Permissible Limit	Avg	Min	Max	pH value	-	6.5 to 8.5	7.41	7.17	7.73	Colour	Pt.Co.	100	49	33	87	S.S	mg/l	100	43	32	54	COD	mg/l	250	187	162	233	BOD	mg/l	100	49	38	63	Oil & Grease	mg/l	10	1.2	1	1.70	Ammonical Nitrogen	mg/l	50	11.3	8.2	15.3	Ph.compounds	mg/l	1	<0.1	<0.1	<0.1	Fluorides	mg/l	1.5	1.1	0.8	1.40
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			Cyanides	mg/l	0.2	Absent	Absent	Absent
			Sulphides	mg/l	2	<0.1	<0.1	<0.1
			Copper	mg/l	3	0.15	0.10	0.24
			Arsenic	mg/l	0.2	<0.01	<0.01	<0.01
			Total Chromium	mg/l	2	0.71	0.31	1.00
			Hexavalent Chromium	mg/l	0.1	<0.03	<0.03	<0.03
			Zinc	mg/l	5	0.17	0.11	0.28
			Nickel	mg/l	3	0.14	0.07	0.25
			Cadium	mg/l	2	<0.05	<0.05	<0.05
			Lead	mg/l	0.1	<0.02	<0.02	<0.02
			Mercury	mg/l	0.01	<0.01	<0.01	<0.01
			Chlorides	mg/l	600	455	402	495
			TDS	mg/l	5000	3183	2816	3617
			Sulphates	mg/l	1000	724	624	806
			Phosphate as P	mg/l	5	1.5	0.8	2.2
			TKN	mg/l	100	14	10.2	17.4
			Nitrate Nitrogen	mg/l	10	3.0	1.3	3.8
			Vanadium	mg/l	0.2	<0.2	<0.2	<0.2
			S.A.R	-	26	20	14	25
			Insecti/Pesti.	mg/l	Absent	Absent	Absent	Absent
			Bio assay test	%survival of fish after 96 hrs.in 100% effluent	90% survival of fish after 96 hrs. in 100% effluent	90	90	90
		<p>Analysis of final discharged effluent is also carried out on daily basis at in-house lab. Avg. in-house results of final discharged effluent for the period Oct '21 to March'22 are well within the GPCB norms.</p> <p>Analysis results of final discharged effluent done in-house (min, max, avg and</p>						

		<p>comparison with GPCB norms): For compliance period October '21 to March '22:</p> <table border="1"> <thead> <tr> <th>Parameters</th> <th>pH</th> <th>SS</th> <th>AN</th> <th>TN</th> <th>COD</th> <th>BOD</th> </tr> </thead> <tbody> <tr> <td>Avg</td> <td>7.8</td> <td>56</td> <td>21.5</td> <td>65.6</td> <td>172</td> <td>33</td> </tr> <tr> <td>Min</td> <td>7.6</td> <td>33</td> <td>19</td> <td>53</td> <td>126</td> <td>28</td> </tr> <tr> <td>Max</td> <td>7.9</td> <td>70</td> <td>26</td> <td>81</td> <td>199</td> <td>37</td> </tr> <tr> <td>Norms</td> <td>6.5-8.5</td> <td>100</td> <td>50</td> <td>100</td> <td>250</td> <td>100</td> </tr> </tbody> </table> <p>*All parameters are in mg/l except pH.</p> <p>EC Div. is maintaining logbook of the ETPs operation, effluent discharge quality and quantity, power consumption, chemical consumption etc. Data is also furnished to GPCB during their visit and as a part of different returns.</p>	Parameters	pH	SS	AN	TN	COD	BOD	Avg	7.8	56	21.5	65.6	172	33	Min	7.6	33	19	53	126	28	Max	7.9	70	26	81	199	37	Norms	6.5-8.5	100	50	100	250	100
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9 (iii).	<p>To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms for particulate matter and/or the NAAQS.</p> <p>The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines</p>	<p>Complied. To control source and the fugitive emissions, a cyclone separator is installed to meet the prescribed norms for particulate matter.</p> <p>The gaseous emission is dispersed through stack of 21 meter height as per GPCB guidelines.</p>																																			
9 (iv).	<p>Total fresh water requirement for the fertilizer plant, including that for the proposed expansion, shall not exceed 32090 (Existing:32051 + Proposed:39) cum/day, proposed to be met through existing water supply from Mahi River. Please refer the EC amendment letter no. J-11011/901/2007-IA.II(I) dated 08.05.2020 is obtained.</p> <p>Prior permission in this regard shall be</p>	<p>Complied. GSFC is withdrawing water from its own French wells located in Mahi river for operation of the plants.</p> <p>GSFC got permission for 31.822 MLD drawl of water from Vadodara Irrigation</p>																																			

	obtained from the concerned regulatory authority	Division (VID) for the year 2021-22 vide letter no. VID/PB-1/IND/REQ.2021-22/GSFC/725 dated 17/03/2021. As per agreement of GoG, +/-25% beyond permissible limit is allowed on annual basis without any penalty. Avg. water drawl for the period Oct.'21 to March '22 is 29.65 MLD for GSFC vadodara complex..
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Permission letter from VMC for water withdrawal

9 (v).	Process effluent/any wastewater shall	Complied. The Trenches provided for effluent collection to avoid mixing with storm
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	not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system	water.
9 (vi).	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps	Complied. As the hazardous chemicals like ammonia and sulfuric acid is transported from existing facility through closed pipeline system to AS-I Plant, hence there is no requirement of storage tanks, tank farms. Sulfuric Acid and ammonia is separately stored at their designated tank farm area. No solvent is used in AS-I plant. Not applicable to AS-I Plant. However, the tank farm of other plants/areas in GSFC stores various petroleum and hazardous materials and provided with various safety accessories including flame arresters. Solvent is transferred to through pumps in other plants/areas of GSFC.
9 (vii).	The project proponent shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989	Complied. Rule 4 (2) a and Rule 4 (2) b under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 are only applicable and strictly followed. Transportation of Chemicals is as per the Motor Vehicle Act & Rules. Moreover, OSEAP (On Site Emergency Action Plan) is in prepared for the entire GSFC complex also covers the risk and emergency criteria for AS-I Plant.
9 (viii) (a).	Metering and control of quantities of active ingredients to minimize waste	Complied. Flow meters are already installed in raw materials (Sulphuric acid and vapor Ammonia), make up water and effluent.
9 (viii) (b).	Use of high pressure hoses for equipment clearing to reduce wastewater generation	Complied. High pressure hoses are used for cleaning purpose.
9 (viii) (c).	Reuse of by-products from the process as raw materials or as raw material substitutes in other processes	Complied. Dust from cyclone separator is recycled. No other by-product is generated in the plant.
9 (viii) (d).	Use of automated filling to minimize spillage	Complied. Automated filling is exists.
9 (viii) (e).	Use of Close Feed system into batch reactors	Complied. Continuous reactors closed feed system is being practiced.

9 (viii) (f).	Venting equipment through vapor recovery system	Complied. Vapor generated is being sucked by ejectors and condensed in condensers by cooling water and recycled in to process.																		
9 (ix).	The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department	<p>Complied. The total area of premises is 328 ha. The green belt area is 123.2 Ha which is 37.56% of total plot area. Hence meeting CPCB guidelines.</p> <table border="1" data-bbox="1021 440 1883 707"> <thead> <tr> <th>Sr. No.</th> <th>Particulate</th> <th>Total Area (Ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Plant Area(Processing)</td> <td>174.70</td> </tr> <tr> <td>2</td> <td>GSFC Township</td> <td>30.1</td> </tr> <tr> <td>3</td> <td>Green Belt (In Plant)</td> <td>32.8</td> </tr> <tr> <td>4</td> <td>Green Belt (Township)</td> <td>90.4</td> </tr> <tr> <td></td> <td>Total area</td> <td>328</td> </tr> </tbody> </table> <p>GSFC has also made adequate plantation on road sides and other open areas.</p>	Sr. No.	Particulate	Total Area (Ha)	1	Plant Area(Processing)	174.70	2	GSFC Township	30.1	3	Green Belt (In Plant)	32.8	4	Green Belt (Township)	90.4		Total area	328
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9 (x).	At least 1% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office	<p>Complied. Total actual Project cost was Rs. 6.75 Cr . Hence Rs. 6.75 Lakhs has been allocated for CER. The expense made during 2020-21 are as under:</p> <table border="1" data-bbox="902 863 1805 1027"> <thead> <tr> <th>Sr.</th> <th>Project</th> <th>Amount (Rs.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Cleaning of pond & storm water drain at Bajwa</td> <td>5,11,000/-</td> </tr> <tr> <td>2</td> <td>Yearly Contribution to SVADES (NGO)</td> <td>3,00,000/-</td> </tr> <tr> <td>3</td> <td>Payment for dispatch of Uniform for Government Primary School</td> <td>1,82,200/-</td> </tr> </tbody> </table>	Sr.	Project	Amount (Rs.)	1	Cleaning of pond & storm water drain at Bajwa	5,11,000/-	2	Yearly Contribution to SVADES (NGO)	3,00,000/-	3	Payment for dispatch of Uniform for Government Primary School	1,82,200/-						
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9 (xi).	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines, Acoustic enclosure shall be provided to DG set for controlling the noise pollution	Compliance not applicable as no DG sets is installed in the plant.																		
9 (xii).	The unit shall make the arrangement for protection of possible fire hazards	Complied. Fire is classified in following three classes. The appropriate fire extinguishers are placed to extinguish the different class of fire.																		

	<p>during manufacturing process in material handling. Fire fighting system shall be as per the norms</p>	<p>Class A: General fire- cotton waste, paper, rubbish and scrap: water, ABC powder type Class B: liquid fire- All solvents, Resin, paints, HSD: Mechanical foam, ABC type Class C: Gaseous/Electrical fire- Gaseous fire and panels etc: CO₂, DCP/ABC</p> <p>Sufficient number of fire hydrant and riser valves is provided to fulfill fire extinguishing need of the plant. Apart from this, fire extinguishers are kept at various locations inside plant and those already hydro statistically tested and refilled at intervals specified by statutory body.</p> <ul style="list-style-type: none"> • Water hydrant • Dry chemical powder type • CO₂ type <p>Sufficient amount of fire fighting water is always stored in storage tank for firefighting works.</p>																																			
<p>9 (xiii).</p>	<p>Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act</p>	<p>Complied. Medical examination (six monthly) of employees is carried out on regular basis 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.</p> <p><u>Periodical Medical Examination details for compliance period October'21 to March'22:</u></p> <table border="1" data-bbox="920 938 1921 1337"> <thead> <tr> <th rowspan="2">Month</th> <th colspan="3">Periodical Medical Examination numbers</th> </tr> <tr> <th>Employees</th> <th>Contract worker</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>October-21</td> <td>288</td> <td>15</td> <td>303</td> </tr> <tr> <td>November-21</td> <td>294</td> <td>18</td> <td>312</td> </tr> <tr> <td>December-21</td> <td>307</td> <td>13</td> <td>320</td> </tr> <tr> <td>January -22</td> <td>129</td> <td>11</td> <td>140</td> </tr> <tr> <td>February-22</td> <td>129</td> <td>11</td> <td>140</td> </tr> <tr> <td>March - 22</td> <td>286</td> <td>34</td> <td>320</td> </tr> <tr> <td>Total</td> <td>1433</td> <td>102</td> <td>1535</td> </tr> </tbody> </table>	Month	Periodical Medical Examination numbers			Employees	Contract worker	Total	October-21	288	15	303	November-21	294	18	312	December-21	307	13	320	January -22	129	11	140	February-22	129	11	140	March - 22	286	34	320	Total	1433	102	1535
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12	Urine examination	1. GLUCOSE 2. PROTEIN																																																							
9 (xiv).	Transportation of raw materials/products should be carefully performed using GPS enabled vehicles	Complied. Transporting finished products through GPS enable trucks has been started. Moreover, transportation of Ammonia and other hazardous chemicals are performed through GPS enabled vehicles.																																																							

9 (xv).	Continuous online (24X7) monitoring system for stack emissions and the effluent, shall be installed for measurement of flow/discharge and the pollutants concentration, and the emission and effluent monitoring data to be transmitted to the CPCB and SPCB server as per the directions of CPCB in this regard	<p>Complied. Online Stack Monitoring system has been installed for live PM measurement and is connected to CPCB/GPCB server since 22/04/2020 at AS-I plant. Moreover, OCEMS exits in another 29 stacks in the premises.</p> <table border="1" data-bbox="927 309 1908 568"> <thead> <tr> <th rowspan="2">Compliance period</th> <th rowspan="2"></th> <th>AS-I Manual Monitoring</th> <th>AS-I Online Moni.</th> </tr> <tr> <th>PM</th> <th>PM</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Oct'21 to March'22</td> <td>Avg.</td> <td>37.15</td> <td>35.40</td> </tr> <tr> <td>Min</td> <td>35.20</td> <td>31.45</td> </tr> <tr> <td>Max</td> <td>39.10</td> <td>36.86</td> </tr> <tr> <td colspan="2">GPCB Norms (mg/Nm3)</td> <td>150</td> <td>150</td> </tr> </tbody> </table> <p>For overall effluent discharge from the premise, Real Time Effluent Monitoring System is in operation from July 2014 for the effluent parameters i.e. pH, COD, BOD, TSS, NH4-N and it is connected to GPCB & CPCB server.</p>	Compliance period		AS-I Manual Monitoring	AS-I Online Moni.	PM	PM	Oct'21 to March'22	Avg.	37.15	35.40	Min	35.20	31.45	Max	39.10	36.86	GPCB Norms (mg/Nm3)		150	150
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9.1 (i).	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and/ or any other statutory authority	Complied. CCA is obtained from SPCB vide letter no. GPCB/CCA-VRD-83(12)/ID: 21968/504570 dated 03.05.2019 and strictly adhering to the stipulations made by the State Pollution Control Board (SPCB),																				
9.1 (ii).	<p>No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change.</p> <p>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 to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any</p>	<p>GSFC will carry any further expansion or modification in the plants after taking necessary permission and approval from concerned authority i.e. GPCB/SEIAA/MOEF.</p> <p>There are no deviations and alterations in the project proposal.</p>																				
9.1 (iii).	The locations of ambient air quality monitoring stations shall be decided in	Complied. Details given below. AAQM monthly avg. results are also submitted to SPCB as a part of Monthly Patrak and annually as a part of Form 4.																				

9.1
(iv).

consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.

The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.

Moreover, 4 nos. of online ambient air quality monitoring station (AAQMS) are installed in Nov. 13 at the periphery of premise after intimation to GPCB having PM10, PM2.5, NOx, SO2 & NH3 monitoring facility. Online AAQMS are connected to GPCB & CPCB server

Ambient air analysis reports for compliance period Oct. '21 to March '22:

LOCATION	SO2, Limit - 80 micro gm/m3			NOX, Limit - 80 micro gm/m3			NH3, Limit - 400 micro gm/m3		
	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX
Vadnagar Tank Farm	9.8	6.7	13.2	14	10.3	17.8	3.8	2.5	5.5
Dashrath Village	10.3	7.6	13.3	13.9	11.1	17.1	3.9	2.2	5.5
Nr. Godama Pump, Channi	10.1	6.3	13	14.3	11.2	18.9	4.2	2.8	5.6
Near main gate	10.9	8	14.1	15.3	12.3	20.3	4.5	2.6	5.8

Location	RSPM10, Limit – 100 micro gm/Nm3			RSPM2.5, Limit - 60 micro gm/Nm3		
	AVG	MIN	MAX	AVG	MIN	MAX
Vadnagar Tank Farm	71.9	58.3	88.2	39.7	30.3	47.4
Dashrath Village	72.5	55.2	89.2	39.2	31.3	50.2
Nr. Godama Pump, Channi	74.9	62.5	88.4	40.2	30.3	47.5
Near Main Gate	73.6	57.6	87.2	40.2	33.7	48.4

		AAQM annual avg. results are also submitted to SPCB as a part of form -4. All the online ambient air quality monitoring stations are connected to GPCB & CPCB server.																																									
9.1 (v).	<p>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.</p> <p>The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 and the rules made there under</p>	<p>Presently, Noise monitoring is carried out at 80 different locations within premises and at ambient air monitoring stations. Details (Max., Min along with comparison with standards) are given below and are in the norms.</p> <p><u>Noise Level for compliance period Oct.'21 to March '22:</u></p> <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>Nr Marketing Yard</td> <td>55</td> <td>43.5</td> <td>66.5</td> <td>47.5</td> <td>36.5</td> <td>58.5</td> </tr> <tr> <td>Nr Adm. Building</td> <td>53.25</td> <td>43</td> <td>63.5</td> <td>45.5</td> <td>38.5</td> <td>52.5</td> </tr> <tr> <td>B/H SA-IV</td> <td>62.5</td> <td>54.5</td> <td>70.5</td> <td>56.5</td> <td>47</td> <td>66</td> </tr> <tr> <td>Vadnagar Tank Farm</td> <td>55</td> <td>45.5</td> <td>64.5</td> <td>49</td> <td>40</td> <td>58</td> </tr> </tbody> </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	55	43.5	66.5	47.5	36.5	58.5	Nr Adm. Building	53.25	43	63.5	45.5	38.5	52.5	B/H SA-IV	62.5	54.5	70.5	56.5	47	66	Vadnagar Tank Farm	55	45.5	64.5	49	40	58
Location	Noise Level, Limit-75 dB(A) Daytime			Noise Level, Limit-70 dB(A) Night time																																							
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9.1 (vi).	The Company 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	Complied. GSFC has installed 16 rainwater harvesting recharge wells in its complex phase manner in 2009 & 2012 to manage the storm water runoff and augment groundwater table.																																									

<p>9.1 (vii).</p>	<p>Training shall be imparted to all employees on safety and health aspects of chemicals handling.</p> <p>Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted</p>	<p>Regular training on safety and health aspects are organized by safety and Medical Services department and workers are deputed for the same. Safety training imparted to workers/employees (including AS-I plant) detail for compliance period Oct '21 - March '22 by Safety department.</p> <table border="1" data-bbox="960 456 1874 922"> <thead> <tr> <th>Month</th> <th>Training Topic</th> <th>Nos. of members present</th> </tr> </thead> <tbody> <tr> <td>Oct '21</td> <td rowspan="3">NIL</td> <td rowspan="3">-</td> </tr> <tr> <td>Nov '21</td> </tr> <tr> <td>Dec '21</td> </tr> <tr> <td>Jan '22</td> <td>Transportation Safety</td> <td>87</td> </tr> <tr> <td></td> <td>EST Refresher Training Program</td> <td>174</td> </tr> <tr> <td>Feb '22</td> <td>Transportation Safety</td> <td>40</td> </tr> <tr> <td>March '22</td> <td>Transportation Safety</td> <td>46</td> </tr> <tr> <td></td> <td>Chlorine Safety</td> <td>45</td> </tr> <tr> <td></td> <td>Chemical Safety</td> <td>45</td> </tr> </tbody> </table> <p>For periodical medical examination, please refer point no. 9(xiii).</p>	Month	Training Topic	Nos. of members present	Oct '21	NIL	-	Nov '21	Dec '21	Jan '22	Transportation Safety	87		EST Refresher Training Program	174	Feb '22	Transportation Safety	40	March '22	Transportation Safety	46		Chlorine Safety	45		Chemical Safety	45
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<p>9.1 (viii).</p>	<p>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 in respect of environmental</p>	<p>Complied. The environment monitoring for the AS-I Plant during operation is conducted as follows;</p> <p>Gaseous Emission: A Cyclone Separator is installed to meet the prescribed norms for particulate matter. Online Stack Monitoring system has been installed for online PM measurement and is connected to CPCB/GPCB since 22.04.2020.</p>																										

	<p>management, risk mitigation measures and public hearing shall be implemented</p>	<p>Effluent: The effluent generated from plant is re used completely in the PA plant of GSFC.</p> <p>Solid/ Hazardous waste generation and Utilization: Oil in minor quantity is generated during plant/maint. activities which is collected in a drums and will be sent to registered refiner as per Management of Hazardous waste and other waste (Management and Transboundary Movement), Rules 2016</p> <p>Other risk mitigation measures and safeguards are as under :</p> <ul style="list-style-type: none"> ✚ Safe Design as per international standards. ✚ DCS for close control and monitoring of process parameters. (Trips/interlock/alarms, emergency shutdown system) ✚ Close safety supervision by plant team. ✚ PSV for pressure vessels. ✚ Trained and experienced manpower. ✚ Work permit system for all the jobs. ✚ Good housekeeping is maintained in the area. ✚ Safety committee (DEHSCM) and suggestion scheme in place for employee involvement. ✚ Usage of PPEs as per the need and policy. ✚ Internal and external safety audits. ✚ Safety signage. ✚ Fire water network. ✚ Two Fire stations with all fire fighting facilities with competent team and manned for 24 hours. ✚ ECC for any emergency. ✚ Mock drills are carriedout for different scenarios. 									
<p>9.1 (ix).</p>	<p>The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco developmental measures shall be undertaken for overall improvement of the environment</p>	<p>Complied. 1% of project cost is spent (Rs. 6.75 lakhs) for CER as per point no. 9 (x). However, GSFC is continuous working for environment and welfare activities as per following details; CSR Expenditure incurred from Oct'21 – March'22:</p> <table border="1" data-bbox="913 1235 1877 1369"> <thead> <tr> <th>Sr.</th> <th>Details</th> <th>Amount Rs.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Education at BU, SU and FU</td> <td>26,27,950</td> </tr> <tr> <td>2</td> <td>Drinking Water Facility in nearby villages of BU</td> <td>11,53,377</td> </tr> </tbody> </table>	Sr.	Details	Amount Rs.	1	Education at BU, SU and FU	26,27,950	2	Drinking Water Facility in nearby villages of BU	11,53,377
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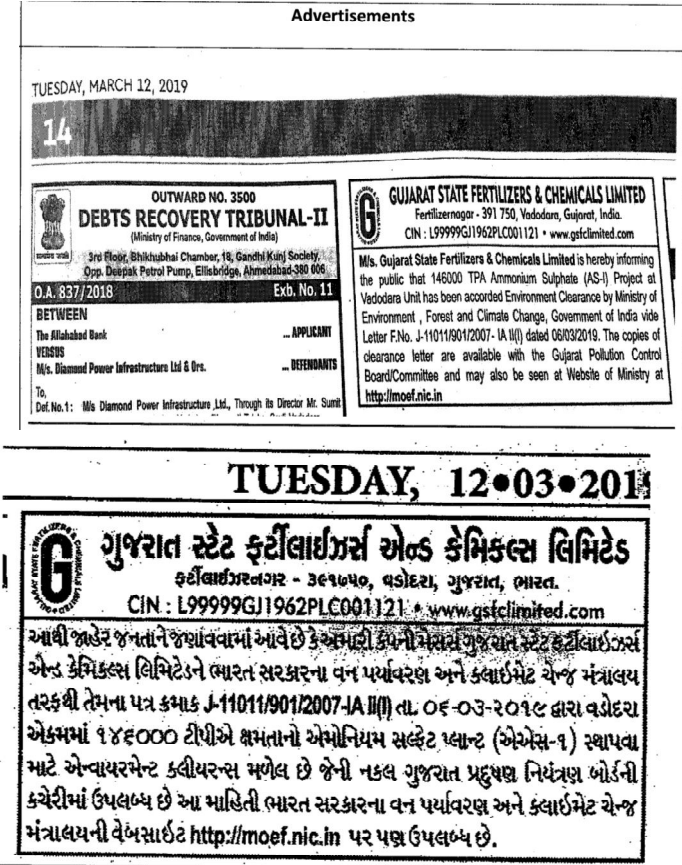
		3	CSR Activities in villages around Sikka Unit	8,90,410
		4	Support for renovation of SVPNPA	50,00,000
		5	Support to GSFC University	4,00,00,000
		Total		4,96,71,737
		<p>CSR Activities are undertaken by GSFC since its inception in some or the other form. Today, company has developed CSR as a very special concept to promote the overall development, progress and betterment of the people belonging to weaker sections of society with a view to improving 'Human Development Index' (HDI) in core areas like education, health, safe drinking water, vocational training, livelihood, special children, support during natural calamities and various in-house projects.</p>		
		Area	Project	
		Education	<ul style="list-style-type: none"> • Empowering youth for better prospect - GSFC University • Shaping future of the nation - School at BU, SU, FU • A healthy body leads to healthy mind - Sports Coaching in schools - Looking at the present competitive world to develop multifaceted personalities the sports culture is given very high importance worldwide. 	
		Special Children	<ul style="list-style-type: none"> • Why fit in when you were born to stand out - Osmosis Centre - GSFC in association with GCSRA has established 'Osmosis Centre' at Urban PHC, Chhani, Vadodara. The main goal of Centre is to help children with learning difficulties by adopting inclusive education with developmental therapy and enhance the growth curve of children. Osmosis runs therapy centre for children who learn differently. 	

		<table border="1"> <tr> <td>Developing CSR Culture</td> <td> <ul style="list-style-type: none"> We rise by lifting others - Employee Engagement Activities Not just human, Humane too - Wall of Humanity Making world a better place - Support Beyond Boundaries </td> </tr> <tr> <td>Rural Development</td> <td> <ul style="list-style-type: none"> Jal he Jivan hai - Drinking water Supply to Nearby villages Creating inclusive structures - Infrastructure Development I have a dream - Skill Development </td> </tr> <tr> <td>Major Past Initiatives</td> <td> <ul style="list-style-type: none"> Fighting Hunger - Support to The Akshaya Patra Foundation Swachta tyan prabhuta - Construction of HSLs – Household Sanitary Latrines </td> </tr> <tr> <td>Contribution and Donations</td> <td> <ul style="list-style-type: none"> Together we can - Regular Support to Various NGOs and other institutions for up liftment of the society </td> </tr> </table>	Developing CSR Culture	<ul style="list-style-type: none"> We rise by lifting others - Employee Engagement Activities Not just human, Humane too - Wall of Humanity Making world a better place - Support Beyond Boundaries 	Rural Development	<ul style="list-style-type: none"> Jal he Jivan hai - Drinking water Supply to Nearby villages Creating inclusive structures - Infrastructure Development I have a dream - Skill Development 	Major Past Initiatives	<ul style="list-style-type: none"> Fighting Hunger - Support to The Akshaya Patra Foundation Swachta tyan prabhuta - Construction of HSLs – Household Sanitary Latrines 	Contribution and Donations	<ul style="list-style-type: none"> Together we can - Regular Support to Various NGOs and other institutions for up liftment of the society 																				
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9.1 (x).	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions	<p>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.</p> <p>EC Dept. Staff list:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Name of employees</th> <th>Designation</th> <th>Tech. Qualification</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>S J Parikh</td> <td>SVP (U & EC)</td> <td>B.E (Chemical)</td> </tr> <tr> <td>2</td> <td>K S Badlani</td> <td>Sr. VP (I&MB, U&EC & FU)</td> <td>B.E (Chemical)</td> </tr> <tr> <td>3</td> <td>P D Kachchhi</td> <td>Chief (EC) & Dy.MR</td> <td>B.E. (Env.), PDIS</td> </tr> <tr> <td>4</td> <td>Mrs.S Y Singh</td> <td>Sr. Mgr (EC)</td> <td>B.E. (Civil)</td> </tr> <tr> <td>5</td> <td>Prashant U Kadu</td> <td>Sr. Mgr (EC)</td> <td>B.E. (TEXTILE)</td> </tr> <tr> <td>6</td> <td>Jaxesh P Trivedi</td> <td>Mgr (EC)</td> <td>B.E (Chemical),</td> </tr> </tbody> </table>	Sr. No.	Name of employees	Designation	Tech. Qualification	1	S J Parikh	SVP (U & EC)	B.E (Chemical)	2	K S Badlani	Sr. VP (I&MB, U&EC & FU)	B.E (Chemical)	3	P D Kachchhi	Chief (EC) & Dy.MR	B.E. (Env.), PDIS	4	Mrs.S Y Singh	Sr. Mgr (EC)	B.E. (Civil)	5	Prashant U Kadu	Sr. Mgr (EC)	B.E. (TEXTILE)	6	Jaxesh P Trivedi	Mgr (EC)	B.E (Chemical),
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			M.Tech (EPD), PDIS
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8	Jayesh M Dave	Addl.Mgr(EC)	B. Sc (Chemistry)
9	Prateek Jain	Dy.Mgr (EC).	B. Tech. (Chem.)
10	Pankaj K Sharma	Plant Engineer.	B.Tech. (Chem.)
11	Mosmi M Patel	Env. Engg.	B.Tech. (RE & EE)
12	S I Malek	Plant Engineer	B. Sc (Chemistry)
13	Rajesh K Desai	Foreman	B.SC Chemistry, DIPC, MS in Env. Sci. under DLP
14	Ambalal K Rana	Sr.Operator	B. Sc (Chemistry)
15	Anil L Arora	Sr.Operator	B. Sc (Chemistry)
16	M R Chandlekar	Sr.Operator	ITI
17	Vipul R Upadhyay	Sr.Operator	B. Sc (Chemistry)
18	PC Maisuriya	Sr.Operator	SSC
19	H V Shah	Plant Engr.	B. Sc (Chemistry)
20	MM Parmar	Sr.Operator	SSC
21	Jayesh Solanki	Sr. Operator	Old SSC
22	Rajesh H Patel	Sr. Operator	B. Sc (Chemistry)
23	Kanubhai B Padhiyar	Operator	B. Sc (Chemistry)
24	Hitesh D Patel	Operator	M.Sc (Env. Sci.)
25	Bhavesh C Patel	Operator	M.Sc (Indus. Chem)
26	MB Kharachia	Sr. Operator	SSC
27	KN Chavda	Foreman	SSC
28	Pankaj C Patel	Jr. Operator	HSC Pass
29	Biren R Patel	Jr. Operator	M.Sc. (Env), PDIS, Cert. (Dis.Mgmt)
30	Purvish S Shah	Jr. Operator	M.Sc. (Env), Cert. (Dis. Mgmt)
31	V R Rabari	Jr. Operator	HSC

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9.1 (xi).	<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. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose</p>	<p>* Total 15 nos. workmen available, which include 5 regular employees and 10 contract workman.</p> <p>Equipments are available for in-house effluent monitoring for parameters like PH, Total Dissolved Solids, Suspended solids, Ammonical Nitrogen, Total Nitrogen, Chemical Oxygen Demand, APHA, Fluoride, Oil and Grease. Equipments are available for in-house gaseous monitoring for parameters like SO2 & SO3, NH3, F & NOX.</p> <p>For spot analysis of gaseous pollutant (Equipment: Dragger tube (available) and pump)</p> <p>Complied. GSFC has provided adequate funds to implement the conditions stipulated by the MoEF and it is integral part of the project. The fund earmarked to implement the conditions has been utilized for intended purpose only.</p> <p>Capital Expenditure incurred over last 3 years are given below. <u>Past three year investment in pollution control:</u></p> <table border="1"> <thead> <tr> <th rowspan="2">Description</th> <th colspan="3">Expenses in lakhs</th> </tr> <tr> <th>2019-20</th> <th>2020-21</th> <th>2021-22</th> </tr> </thead> <tbody> <tr> <td>Investment in Pollution control</td> <td>4150.89</td> <td>4197.49</td> <td>4198.58</td> </tr> <tr> <td>Total Investment</td> <td>515347.37</td> <td>521649.49</td> <td>521036.12</td> </tr> </tbody> </table>	Description	Expenses in lakhs			2019-20	2020-21	2021-22	Investment in Pollution control	4150.89	4197.49	4198.58	Total Investment	515347.37	521649.49	521036.12
Description	Expenses in lakhs																
	2019-20	2020-21	2021-22														
Investment in Pollution control	4150.89	4197.49	4198.58														
Total Investment	515347.37	521649.49	521036.12														

		Budget is prepared every year for the expenses to be carried out by Environment Control dept.
9.1 (xii).	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal	Complied. Public hearing is not applicable as the project is located in Notified Industrial Area declared under Gujarat Industrial Act 1962 vide Government of Gujarat I.M.E.D notification no. GHU-87-46-GID-1686(i) 2338(GI) dated 31 st August 1987.
9.1 (xiii).	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of environmental clearance and six monthly compliance status report shall be posted on the website of the company	Complied.
9.1 (xiv).	The environmental statement for each financial year ending 31 st 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	Complied. Last Environment Statement submitted to GPCB vide letter EC/IMS/ES/10/2021-22 dtd.24.05.2022 for the year 2021-22.

	respective Regional offices of MoEF & CC by e-mail	
9.1 (xv).	<p>The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.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</p>	<p>Complied, GSFC has published advertisement of Env. Clearance in local news papers i.e. Indian Express & Sandesh newspapers on 12/03/2019.</p>  <p>The image shows two advertisements. The top one is for the Debts Recovery Tribunal-II, Ministry of Finance, Government of India, with details about an application by The Allahabad Bank against M/s. Diamond Power Infrastructure Ltd & Ors. The bottom one is for Gujarat State Fertilizers & Chemicals Limited, informing the public about the 146000 TPA Ammonium Sulphate (AS-I) Project at Vadodara Unit, which has been accorded Environmental Clearance by the Ministry of Environment, Forest and Climate Change, Government of India. It includes the project details, the clearance letter number, and the website for more information.</p>

Monitoring the Implementation of Environmental Safeguards Ministry of Environment & Forests
Western Region, Regional Office, Bhopal MONITORING REPORT

PART – 1 DATA SHEET

No.	Conditions	Compliance (Period of Oct '21-March '22)
1.	Project type: River-valley / Mining/ Industry/Thermal/Nuclear/Others(specify)	Industrial
2.	Name of the Project	Expansion of Existing Plant Facility (AS-I) for production of Ammonium Sulphate (Production Capacity: 146000 MTPA)
3.	Clearance letter(s) OM No. and date	No. J-11011/901/2007-IA II(I) dated 06/03/2019
4.	Location a) District (s) b) State (s) c) Location Latitude / Longitude	Vadodara Gujarat 22 ^o 22' 26.2" N and 73 ^o 09' 05.3" E
5.	Address for Correspondence Address of the Concerned Project Chief Engineer (with Pin Code & Telephone/ Telex/ Fax Numbers)	Mr. K S Badlani, Sr. Vice President (I&MB, U&EC & FU) P.O.: Fertilizernagar - 391750, Tal. & District : Vadodara, State : Gujarat Mo. no. :9909965842; email: ksbadlani@gsfcltd.com
6.	Salient Features a) of the Project b) of the Environmental Management Plans	a. Project: Modification in process of Existing Ammonium Sulphate-I Plant for production of 146000 MTPA Ammonium Sulphate by Direct Neutralization process of Ammonia and Sulphuric Acid. b. EMP: The Plant is reused once through water from APS plant in AS-I plant. 73 KLD effluent from the industrial activity is generated and sent to Phosphoric Acid plant for reuse Cyclone separator has been installed as a APCM at AS-I plant. Online

		Stack Monitoring system has been installed for live PM measurement and is connected to CPCB/GPCB server since 22.04.2020								
7.	Breakup of the Project Area a) Submergence area : Forest & Non-Forest b) Others	Not Applicable Utilizing existing land by modifying existing AS-I Plant.								
8.	Breakup of the project affected population with enumeration of those Losing Houses/ Dwelling Units only, Agricultural Land only, Both Dwelling Units & Agricultural Land & I Landless Laborers/ Artisans : a) SC, ST / Adivasi b) Others (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)	Not Applicable								
9	Financial Details : a) Project Cost as originally planned and subsequent revised estimates and the year of price Reference. b) Allocation made for environmental management plans with item wise and year wise break-up.	a. Estimated Cost Rs. 875 Lac but actual cost is Rs. 675 Lac. b. It is included in the project cost. -2019 <table border="1"> <thead> <tr> <th>SR NO</th> <th>ITEM CODE</th> <th>QUANTIT Y UNIT</th> <th>UNIT RATE (IN INR)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ONLINE SPM AND NOX ANALYZERS, FLOW METER CONSISTING OF THE FOLLOWING :- (1A) GAS ANALYSIS SYSTEM FOR MEASUREMENT OF NO_x AT DRYER VENT STACK (1B) ¼" PTFE SAMPLE GAS TUBE (2) DUST MONITORING ANALYSER (3) ANALYSER HOUSING SHELTER (4) STACK PRESSURE MEASUREMENT</td> <td>1.000 SET</td> <td>3,916,748.28</td> </tr> </tbody> </table>	SR NO	ITEM CODE	QUANTIT Y UNIT	UNIT RATE (IN INR)	1	ONLINE SPM AND NOX ANALYZERS, FLOW METER CONSISTING OF THE FOLLOWING :- (1A) GAS ANALYSIS SYSTEM FOR MEASUREMENT OF NO _x AT DRYER VENT STACK (1B) ¼" PTFE SAMPLE GAS TUBE (2) DUST MONITORING ANALYSER (3) ANALYSER HOUSING SHELTER (4) STACK PRESSURE MEASUREMENT	1.000 SET	3,916,748.28
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	<p>c) Benefit cost ratio/Internal rate of Return and the year of assessment</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>	<table border="1" data-bbox="981 193 1908 651"> <tr> <td data-bbox="981 193 1059 651"></td> <td data-bbox="1059 193 1568 651"> <p>(5) STACK TEMPERATURE MEASUREMENT</p> <p>(6) STACK FLOW MEASUREMENT</p> <p>(7A) INTER CONNECTING CABLE # POWER CABLES WITH SS CABLE GLAND</p> <p>(7B) INTER CONNECTING CABLE # SIGNAL CABLES WITH SS CABLE GLAND</p> <p>(8A) SS TUBE # ½"</p> <p>(8B) SS TUBE # ¼"</p> <p>(9) CABLE TRAY- 100 MM SIZE</p> </td> <td data-bbox="1568 193 1720 651"></td> <td data-bbox="1720 193 1908 651"></td> </tr> </table> <p>c) --</p> <p>d) --</p> <p>e) 675 lac.</p> <p>f) All environment aspects are considered by GSFC. Actual costing towards environmental management plans is included in the project cost. Online PM monitoring package cost is approximately 55 lac.</p>		<p>(5) STACK TEMPERATURE MEASUREMENT</p> <p>(6) STACK FLOW MEASUREMENT</p> <p>(7A) INTER CONNECTING CABLE # POWER CABLES WITH SS CABLE GLAND</p> <p>(7B) INTER CONNECTING CABLE # SIGNAL CABLES WITH SS CABLE GLAND</p> <p>(8A) SS TUBE # ½"</p> <p>(8B) SS TUBE # ¼"</p> <p>(9) CABLE TRAY- 100 MM SIZE</p>		
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10	<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>Not Applicable</p>				

	Comments on the viability & sustainability Of compensatory afforestation program In the light of actual field experience so far	
11	The Status of Clear Felling in non-forest Areas (such as submergence area or Reservoir, approach roads), if any with Quantitative information required.	Not Applicable
12	Status of Construction (actual and/ or planned) a) Date of commencement (Actual and/or planned) b) Date of completion (Actual and/or planned)	20/06/2018 10/02/2019
13	Reason for the delay if the project is yet to start	Not Applicable
14	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.	17.07.2018. Scientist (D) of MoEF visited on 26.07.19. Dy.Director- MoEF visited on 23.06.2021.

