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

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

<table>
<tr><th>Sr. No.</th><th>Specific Conditions</th><th>Compliance Status
(Period April‘24 to September’24)</th></tr>
<tr><td>9 (i)</td><td>Necessary permission as mandated under Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 as applicable from time to time, shall be obtained from State Pollution Control Board.</td><td>Complied. GSFC has already obtained CCA from GPCB for existing production activities under provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Transboundary Movement) Rules, 2016.</td></tr>
<tr><td>9(ii)</td><td>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)</td><td>Complied. Avg. Quantity of treated effluent of 9492 cum/day (April ‘24 to Sept.’24) conforming the standard prescribed under EP Rules 1986 is discharged to sea through M/S Vadodara Enviro Channel Limited (VECL).

Analysis of final discharged effluent is carried out daily in-house laboratory and through NABL approved lab. Avg. results for the period April ‘24 to Sept ’24 are within the permissible limit given by GPCB. Details (Parameter wise max. Min. & Avg.) are given below in tabular format.

Analysis results of final discharged effluent done by external NABL approved lab (min, max, avg and comparison with GPCB norms):

For Compliance Period April’24 to Sept ’24:
<table>
<tr><th>Parameters</th><th>UNIT</th><th>Permissible Limit</th><th>Avg</th><th>Min</th><th>Max</th></tr>
<tr><td>pH value</td><td>-</td><td>6.5 to 8.5</td><td>7.6</td><td>7.3</td><td>8</td></tr>
<tr><td>Colour</td><td>Pt.Co.</td><td>100</td><td>86</td><td>70</td><td>98</td></tr>
<tr><td>S.S</td><td>mg/l</td><td>100</td><td>29</td><td>12</td><td>46</td></tr>
<tr><td>COD</td><td>mg/l</td><td>250</td><td>81</td><td>65</td><td>95</td></tr>
<tr><td>BOD</td><td>mg/l</td><td>100</td><td>20</td><td>15</td><td>26</td></tr>
<tr><td>Oil & Grease</td><td>mg/l</td><td>10</td><td><1</td><td><1</td><td><1</td></tr>
</table></td></tr>
</table>

Ammonical Nitrogen	mg/l	50	40	32	49
Ph.compounds	mg/l	1	<0.2	<0.2	<0.2
Fluorides	mg/l	1.5	0.7	0.4	1.0
Cyanides	mg/l	0.2	<0.01	<0.01	<0.01
Sulphides	mg/l	2	<0.1	<0.1	<0.1
Copper	mg/l	3	<0.1	<0.1	<0.1
Arsenic	mg/l	0.2	<0.01	<0.01	<0.01
Total Chromium	mg/l	2	<0.1	<0.1	<0.1
Hexavalent Chromium	mg/l	0.1	<0.05	<0.05	<0.05
Zinc	mg/l	5	<0.1	<0.1	<0.1
Nickel	mg/l	3	<0.1	<0.1	<0.1
Lead	mg/l	0.1	<0.05	<0.05	<0.05
Mercury	mg/l	0.01	<0.005	<0.005	<0.005
Chlorides	mg/l	600	425	320	512
TDS	mg/l	5000	2592	1080	3210
Sulphates	mg/l	1000	416	380	482
Bio assay test	%survival of fish after 96 hrs.in 100% effluent	90% survival of fish after 96 hrs. in 100% effluent	Pass	Pass	Pass

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 April '24 to Sept'24 are well within the GPCB norms.

Analysis results of final discharged effluent done in-house (min, max, avg and comparison with GPCB norms):

For compliance period April '24 to Sept '24:

Parameters	**pH**	**SS**	**AN**	**TN**	**COD**	**BOD**

<table>
<tr><td></td><td></td><td>
<table>
<tr><td>Avg</td><td>7.9</td><td>33</td><td>13</td><td>43</td><td>105</td><td>40</td></tr>
<tr><td>Min</td><td>7.8</td><td>27</td><td>10</td><td>37</td><td>96</td><td>40</td></tr>
<tr><td>Max</td><td>8.0</td><td>39</td><td>16</td><td>48</td><td>112</td><td>40</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>
</table>
*All parameters are in mg/l except pH.

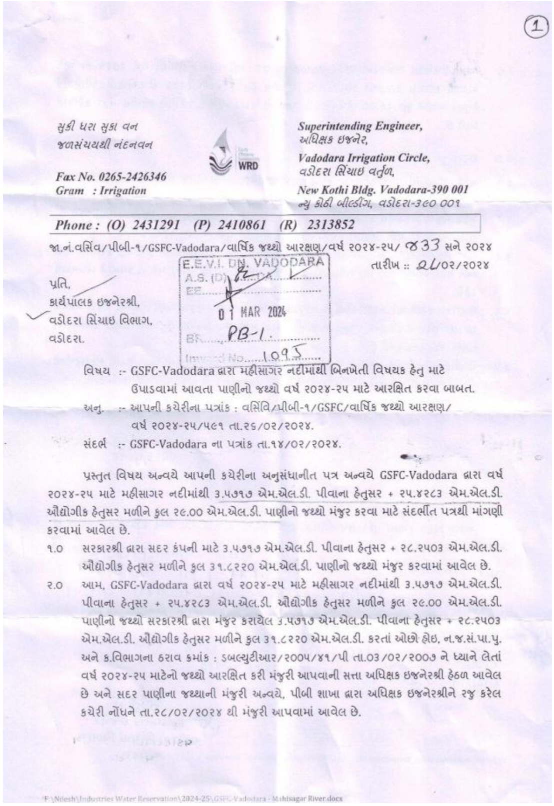
EC Div. is maintaining logbook of the ETPs operation, effluent discharge quality and quantity, power consumption, chemical consumption etc. Data is also furnished to GPCB during their visit and as a part of different returns.</td></tr>
<tr><td>9 (iii)</td><td>To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms for particulate matter and/or the NAAQS.

The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines</td><td>Complied. To control source and the fugitive emissions, a cyclone separator is installed to meet the prescribed norms for particulate matter.

The gaseous emission is dispersed thorough stack of 21 meter height as per GPCB guidelines.</td></tr>
<tr><td>9 (iv)</td><td>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.

Prior permission in this regard shall be obtained from the concerned regulatory authority</td><td>Complied. GSFC is withdrawing water from its own French wells located in Mahi river for operation of the plants.

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.</td></tr>
</table>



સુકી ધરા સુકા વન
જળસંચયથી નંદનવન

Fax No. 0265-2426346
Gram : Irrigation

Superintending Engineer,
અધિક્ષક ઇજનેર,
Vadodara Irrigation Circle,
વડોદરા સિંચાઇ વર્તુળ,
New Kothi Bldg. Vadodara-390 001
ન્યુ કોઠી બીલ્ડીંગ, વડોદરા-૩૯૦ ૦૦૧

Phone : (O) 2431291 (P) 2410861 (R) 2313852

જા.નં.વસિંવ/પીબી-૧/GSFC-Vadodara/વાર્ષિક જથ્થો આરક્ષણ/વર્ષ ૨૦૨૪-૨૫/ 833 સને ૨૦૨૪
તારીખ :: 21/૦૨/૨૦૨૪

E.E.V.I. DN. VADODARA
01 MAR 2024
PB-1
Inward No. 1095

પ્રતિ,
કાર્યપાલક ઇજનેરશ્રી,
વડોદરા સિંચાઇ વિભાગ,
વડોદરા.

વિષય :- GSFC-Vadodara દ્વારા મહીસાગર નદીમાંથી બિનખેતી વિષયક હેતુ માટે ઉપાડવામાં આવતા પાણીનો જથ્થો વર્ષ ૨૦૨૪-૨૫ માટે આરક્ષિત કરવા બાબત.
અનુ. :- આપની કચેરીના પત્રાંક : વસિંવિ/પીબી-૧/GSFC/વાર્ષિક જથ્થો આરક્ષણ/ વર્ષ ૨૦૨૪-૨૫/૫૯૧ તા.૨૬/૦૨/૨૦૨૪.
સંદર્ભ :- GSFC-Vadodara ના પત્રાંક તા.૧૪/૦૨/૨૦૨૪.

પ્રસ્તુત વિષય અન્વયે આપની કચેરીના અનુસંધાનીત પત્ર અન્વયે GSFC-Vadodara દ્વારા વર્ષ ૨૦૨૪-૨૫ માટે મહીસાગર નદીમાંથી ૩.૫૭૧૭ એમ.એલ.ડી. પીવાના હેતુસર + ૨૫.૪૨૮૩ એમ.એલ.ડી. ઔદ્યોગીક હેતુસર મળીને કુલ ૨૯.૦૦ એમ.એલ.ડી. પાણીનો જથ્થો મંજુર કરવા માટે સંદર્ભીત પત્રથી માંગણી કરવામાં આવેલ છે.

૧.૦ સરકારશ્રી દ્વારા સદર કંપની માટે ૩.૫૭૧૭ એમ.એલ.ડી. પીવાના હેતુસર + ૨૮.૨૫૦૩ એમ.એલ.ડી. ઔદ્યોગીક હેતુસર મળીને કુલ ૩૧.૮૨૨૦ એમ.એલ.ડી. પાણીનો જથ્થો મંજુર કરવામાં આવેલ છે.

૨.૦ આમ, GSFC-Vadodara દ્વારા વર્ષ ૨૦૨૪-૨૫ માટે મહીસાગર નદીમાંથી ૩.૫૭૧૭ એમ.એલ.ડી. પીવાના હેતુસર + ૨૫.૪૨૮૩ એમ.એલ.ડી. ઔદ્યોગીક હેતુસર મળીને કુલ ૨૯.૦૦ એમ.એલ.ડી. પાણીનો જથ્થો સરકારશ્રી દ્વારા મંજુર કરાયેલ ૩.૫૭૧૭ એમ.એલ.ડી. પીવાના હેતુસર + ૨૮.૨૫૦૩ એમ.એલ.ડી. ઔદ્યોગીક હેતુસર મળીને કુલ ૩૧.૮૨૨૦ એમ.એલ.ડી. કરતાં ઓછો હોઇ, ન.જ.સં.પા.પુ. અને ક.વિભાગના ઠરાવ ક્રમાંક : ડબલ્યુટીઆર/૨૦૦૫/૪૧/પી તા.૦૩/૦૨/૨૦૦૭ ને ધ્યાને લેતાં વર્ષ ૨૦૨૪-૨૫ માટેનો જથ્થો આરક્ષિત કરી મંજુરી આપવાની સત્તા અધિક્ષક ઇજનેરશ્રી હેઠળ આવેલ છે અને સદર પાણીના જથ્થાની મંજુરી અન્વયે, પીબી શાખા દ્વારા અધિક્ષક ઇજનેરશ્રીને રજુ કરેલ કચેરી નોંધને તા.૨૮/૦૨/૨૦૨૪ થી મંજુરી આપવામાં આવેલ છે.

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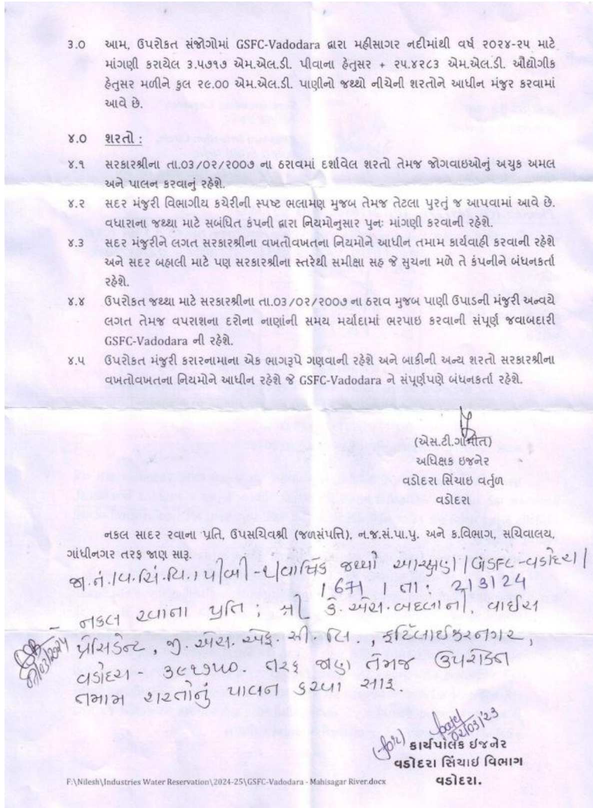

૩.૦ આમ, ઉપરોકત સંજોગોમાં GSFC-Vadodara દ્વારા મહીસાગર નદીમાંથી વર્ષ ૨૦૨૪-૨૫ માટે માંગણી કરાયેલ ૩.૫૭૧૭ એમ.એલ.ડી. પીવાના હેતુસર + ૨૫.૪૨૮૩ એમ.એલ.ડી. ઔદ્યોગીક હેતુસર મળીને કુલ ૨૯.૦૦ એમ.એલ.ડી. પાણીનો જથ્થો નીચેની શરતોને આધીન મંજુર કરવામાં આવે છે.

૪.૦ શરતો :

૪.૧ સરકારશ્રીના તા.૦૩/૦૨/૨૦૦૭ ના ઠરાવમાં દર્શાવેલ શરતો તેમજ જોગવાઇઓનું અચુક અમલ અને પાલન કરવાનું રહેશે.

૪.૨ સદર મંજુરી વિભાગીય કચેરીની સ્પષ્ટ ભલામણ મુજબ તેમજ તેટલા પુરતું જ આપવામાં આવે છે. વધારાના જથ્થા માટે સબંધિત કંપની દ્વારા નિયમોનુસાર પુનઃ માંગણી કરવાની રહેશે.

૪.૩ સદર મંજુરીને લગત સરકારશ્રીના વખતોવખતના નિયમોને આધીન તમામ કાર્યવાહી કરવાની રહેશે અને સદર બહાલી માટે પણ સરકારશ્રીના સ્તરેથી સમીક્ષા સહ જે સુચના મળે તે કંપનીને બંધનકર્તા રહેશે.

૪.૪ ઉપરોકત જથ્થા માટે સરકારશ્રીના તા.૦૩/૦૨/૨૦૦૭ ના ઠરાવ મુજબ પાણી ઉપાડની મંજુરી અન્વયે લગત તેમજ વપરાશના દરોના નાણાંની સમય મર્યાદામાં ભરપાઇ કરવાની સંપૂર્ણ જવાબદારી GSFC-Vadodara ની રહેશે.

૪.૫ ઉપરોકત મંજુરી કરારનામાના એક ભાગરૂપે ગણવાની રહેશે અને બાકીની અન્ય શરતો સરકારશ્રીના વખતોવખતના નિયમોને આધીન રહેશે જે GSFC-Vadodara ને સંપૂર્ણપણે બંધનકર્તા રહેશે.

(એસ.ટી.ગામીત)
અધિક્ષક ઇજનેર
વડોદરા સિંચાઇ વર્તુળ
વડોદરા

નકલ સાદર રવાના પ્રતિ, ઉપસચિવશ્રી (જળસંપત્તિ), ન.જ.સં.પા.પુ. અને ક.વિભાગ, સચિવાલય, ગાંધીનગર તરફ જાણ સારૂ.

કાર્યપાલક ઇજનેર
વડોદરા સિંચાઇ વિભાગ
વડોદરા.

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<u>Permission letter from VMC for water withdrawal</u>

9 (v).	Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system	**Complied.** The Trenches are provided for effluent collection to avoid mixing with storm water.
9(vi).	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc.	**Complied**. As the hazardous chemicals like ammonia and sulfuric acid is transported from existing facility through closed pipeline system to AS-I Plant,

	Flame arresters shall be provided on tank farm, and solvent transfer through pumps	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.

<table>
<tr>
<td>9 (ix).</td>
<td>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</td>
<td>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.

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.

<table>
<tr><th>Sr. No.</th><th>Particulate</th><th>Total Area (Ha)</th></tr>
<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%)</td><td>133.35</td></tr>
<tr><td></td><td>Total area</td><td>327.35</td></tr>
</table>

GSFC has also made adequate plantation on road sides and other open areas.</td>
</tr>
<tr>
<td>9 (x).</td>
<td>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</td>
<td>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:
<table>
<tr><th>Sr.</th><th>Project</th><th>Amount (Rs.)</th></tr>
<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>
</table>
Out of the above expenditure Rs. 6.75 lacs is for CER and the rest is for CSR.</td>
</tr>
<tr>
<td>9 (xi).</td>
<td>For the DG sets, emission limits and the stack height shall be in conformity with</td>
<td>Not applicable. No DG sets is installed in the plant.</td>
</tr>
</table>

	the extant regulations and the CPCB guidelines, Acoustic enclosure shall be provided to DG set for controlling the noise pollution	
9 (xii).	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.** Fire is classified in following three classes. The appropriate fire extinguishers are placed to extinguish the different class of fire. 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 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. • Water hydrant • Dry chemical powder type • CO2 type Sufficient amount of fire fighting water is always stored in storage tank for firefighting works.

<table>
<tr>
<td>9
(xiii).</td>
<td>Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act</td>
<td>
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.
<u>Periodical Medical Examination details for compliance period April’24 to Sept’24 :</u>
<table>
<tr><td>Month</td><td colspan="3">Periodical Medical Examination numbers</td></tr>
<tr><td></td><td>Employees</td><td>Contract worker</td><td>Total</td></tr>
<tr><td>April-24</td><td>180</td><td>14</td><td>194</td></tr>
<tr><td>May-24</td><td>229</td><td>22</td><td>251</td></tr>
<tr><td>June-24</td><td>222</td><td>121</td><td>343</td></tr>
<tr><td>July-24</td><td>203</td><td>43</td><td>246</td></tr>
<tr><td>Aug-24</td><td>254</td><td>70</td><td>324</td></tr>
<tr><td>Sept.-24</td><td>236</td><td>201</td><td>437</td></tr>
<tr><td>Total</td><td>1324</td><td>471</td><td>1795</td></tr>
</table>
<u>Pre-Medical Examination details: April’24 to Sept’24</u>
<table>
<tr><td>Month</td><td>Pre-medical Examination numbers</td></tr>
<tr><td>April-24</td><td>0</td></tr>
<tr><td>May-24</td><td>0</td></tr>
<tr><td>June-24</td><td>5</td></tr>
<tr><td>July-24</td><td>0</td></tr>
<tr><td>Aug-24</td><td>4</td></tr>
<tr><td>Sept.-24</td><td>13</td></tr>
<tr><td>Total</td><td>22</td></tr>
</table>
</td>
</tr>
</table>

<table>
<tr>
<td></td>
<td></td>
<td>
Examination done for Periodical medical examination:
<table>
<tr><td>S. No</td><td colspan="2">Examinations</td></tr>
<tr><td>1</td><td colspan="2">Physical examination</td></tr>
<tr><td>2</td><td colspan="2">History of past and present illnesses of personal and family</td></tr>
<tr><td>3</td><td colspan="2">History of any medication and drug and allergic reaction.</td></tr>
<tr><td>4</td><td colspan="2">ECG (if needed)</td></tr>
<tr><td>5</td><td colspan="2">PFT</td></tr>
<tr><td>6</td><td colspan="2">Counseling for habits(tobacco, alcohol, smoking)</td></tr>
<tr><td>7</td><td colspan="2">Counseling (Nutrition, stress, ergonomics, hazard specification)</td></tr>
<tr><td>8</td><td colspan="2">Health screening of life style diseases</td></tr>
<tr><td>9</td><td colspan="2">Screening of HYPERSENSITIVITY of any chemical or any drug</td></tr>
<tr><td>10</td><td colspan="2">X-ray/USG (if needed)</td></tr>
<tr><td>11</td><td>Blood investigation</td><td>1. CBC 2. LFT 3. RFT 4 Lipid profile (prone to cases) 5. RBS/FBS (PP2BS for prone to cases).</td></tr>
<tr><td>12</td><td>Urine examination</td><td>1. GLUCOSE 2. PROTEIN</td></tr>
</table>
There is no occupational health disease during above period.
</td>
</tr>
<tr>
<td>9 (xiv).</td>
<td>Transportation of raw materials/products should be carefully performed using GPS enabled vehicles</td>
<td>Complied. Transportation of raw materials/products and other hazardous chemicals through GPS enabled vehicles are in practice.</td>
</tr>
<tr>
<td>9 (xv).</td>
<td>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</td>
<td>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.
<table>
<tr><td rowspan="2">Compliance period</td><td></td><td>AS-I Manual Monitoring</td><td>AS-I Online Moni.</td></tr>
<tr><td></td><td>PM</td><td>PM</td></tr>
<tr><td rowspan="3">April ‘24 to Sept ’24</td><td>Avg.</td><td>24.6</td><td>9.89</td></tr>
<tr><td>Min</td><td>24.6</td><td>5.46</td></tr>
<tr><td>Max</td><td>24.6</td><td>30.19</td></tr>
<tr><td colspan="2">GPCB Norms (mg/Nm3)</td><td>150</td><td>150</td></tr>
</table>
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 which is</td>
</tr>
</table>

<table>
<tr><td></td><td></td><td>connected to GPCB & CPCB server.</td></tr>
<tr><td></td><td>General Conditions</td><td></td></tr>
<tr><td>9.1 (i).</td><td>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</td><td>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),</td></tr>
<tr><td>9.1 (ii).</td><td>No further expansion or modifications 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 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</td><td>Agree to comply. 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.

There are no deviations and alterations in the project.</td></tr>
<tr><td>9.1 (iii).

9.1 (iv).</td><td>The locations of ambient air quality monitoring stations shall be decided in 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.</td><td>Complied. Details are 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.
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.
<u>Ambient air analysis reports for compliance period April ‘24 to Sept ’24</u>:

<table>
<tr><th></th><th colspan="3">SO2, Limit - 80 micro gm/m3</th><th colspan="3">NOX, Limit - 80 micro gm/m3</th><th colspan="3">NH3, Limit - 400 micro gm/m3</th></tr>
<tr><th>LOCATION</th><th>AVG</th><th>MIN</th><th>MAX</th><th>AVG</th><th>MIN</th><th>MAX</th><th>AVG</th><th>MIN</th><th>MAX</th></tr>
<tr><td>Vadnagar Tank Farm</td><td>8.2</td><td>6.3</td><td>10.2</td><td>11.4</td><td>8.9</td><td>14.8</td><td>4.5</td><td>3.2</td><td>6.0</td></tr>
</table>
</td></tr>
</table>

Dashrath Village	18.7	15.6	23.3	23.6	18.2	28.2	6.0	4.5	8.5
Nr. Godama Pump, Channi	23.2	20.3	26.4	28.0	23.8	32.9	8.4	6.2	10.2
Near main gate	16.8	12.1	21.0	20.5	16.6	24.1	5.9	4.5	7.6

Location	**RSPM10, Limit – 100 micro gm/Nm3**			**RSPM2.5, Limit - 60 micro gm/Nm3**		
	AVG	MIN	MAX	AVG	MIN	MAX
Vadnagar Tank Farm	59.2	48.8	72.5	35.3	27.2	42.5
Dashrath Village	81.9	66.9	93.5	46.2	39.8	54.5
Nr.Godama Pump,Channi	93.7	87.9	99.3	54.8	48.0	58.7
Near Main Gate	74.8	60.4	87.8	43.4	34.5	50.4

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).

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 and the rules made there under

Complied 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.

Noise Level for compliance period **April '24 – Sept '24**:

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

<table>
<tr><td></td><td></td><td>
<table>
<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>
</td></tr>
<tr><td>9.1 (vi).</td><td>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</td><td>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.

GSFC has installed 15 rainwater harvesting recharge wells in its complex phase manner in 2009 & 2012 to manage the storm water runoff and augment groundwater level.</td></tr>
<tr><td>9.1 (vii).</td><td>Training shall be imparted to all employees on safety and health aspects of chemicals handling.</td><td>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;

<table>
<tr><th>Month</th><th>Training Topic</th><th>Nos. of members present</th></tr>
<tr><td rowspan="4">April-24</td><td>Safety Site Talk</td><td>314</td></tr>
<tr><td>Induction class room safety training</td><td>04</td></tr>
<tr><td>Pre shutdown Safety training</td><td>20</td></tr>
<tr><td>Fire Fighting training</td><td>55</td></tr>
<tr><td rowspan="4">May-24</td><td>Safety Site Talk</td><td>151</td></tr>
<tr><td>Transport Safety</td><td>54</td></tr>
<tr><td>PPA & BA set demo.</td><td>37</td></tr>
<tr><td>Class room safety training</td><td>67</td></tr>
<tr><td rowspan="2">June – 24</td><td>Safety Site Talk</td><td>529</td></tr>
<tr><td>Class room safety training</td><td>62</td></tr>
</table>
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<table>
<tr>
<td></td>
<td>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</td>
<td>
<table>
<tr><td></td><td>Transport Safety</td><td>28</td></tr>
<tr><td rowspan="2">July – 24</td><td>Safety Site Talk</td><td>219</td></tr>
<tr><td>Tool box talk</td><td>08</td></tr>
<tr><td rowspan="6">Aug-24</td><td>Safety Site Talk</td><td>214</td></tr>
<tr><td>Work permit system</td><td>89</td></tr>
<tr><td>Haz. Property of Chemicals, Electrical and Mechanical Safety</td><td>89</td></tr>
<tr><td>Safety during working in Confined Space, Emergency Preparedness</td><td>89</td></tr>
<tr><td>Safety during work at height, and Types of PPEs</td><td>89</td></tr>
<tr><td>Fire Safety & Practical</td><td>89</td></tr>
<tr><td rowspan="7">Sept. -24</td><td>Safety Site Talk</td><td>107</td></tr>
<tr><td>Transport Safety</td><td>9</td></tr>
<tr><td>Work permit system</td><td>39</td></tr>
<tr><td>Haz. Property of Chemicals, Electrical and Mechanical Safety</td><td>39</td></tr>
<tr><td>Safety during working in Confined Space, Emergency Preparedness</td><td>39</td></tr>
<tr><td>Safety during work at height, and Types of PPEs</td><td>39</td></tr>
<tr><td>Fire Safety & Practical</td><td>39</td></tr>
</table>
For periodical medical examination, please refer point no. 9(xiii).
</td>
</tr>
<tr>
<td>9.1 (viii).</td>
<td>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</td>
<td>Complied The environment monitoring for the AS-I Plant during operation is conducted as follows;

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.</td>
</tr>
</table>

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<tr>
<td></td>
<td>management, risk mitigation measures and public hearing shall be implemented</td>
<td>Effluent: The effluent generated from plant is re used completely in the PA plant of GSFC.
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 Transboudary Movement), Rules 2016

Other risk mitigation measures and safeguards are as under :
- 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 skim 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.</td>
</tr>
<tr>
<td>9.1 (ix).</td>
<td>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</td>
<td>Complied. 1% of project cost is spent (Rs. 6.75 lakhs) for CER. However, GSFC is continuous working for environment and welfare activities as per following details;
CSR Expenditure incurred from April ’24 – Sept ’24:

<table>
<tr><th>Sr.</th><th>Details</th><th>Amount Rs.</th></tr>
<tr><td>1</td><td>Education</td><td>27,87,800</td></tr>
<tr><td>2</td><td>Drinking Water Facility</td><td>12,62,086</td></tr>
<tr><td>3</td><td>Other Local activities</td><td>82,26,205</td></tr>
</table>
</td>
</tr>
</table>

		Total	**1,22,76,091**

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.

Area	**Project**
Education	• 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	• 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.
Developing CSR Culture	• We rise by lifting others - Employee Engagement Activities • Not just human, Humane too - Wall of Humanity • Making world a better place - Support Beyond Boundaries

<table>
<tr><td></td><td></td><td>
<table>
<tr><td>Rural Development</td><td>• 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>• 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>• Together we can - Regular Support to Various NGOs and other institutions for up liftment of the society</td></tr>
</table>
</td></tr>
<tr><td>9.1 (x).</td><td>A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions</td><td>
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:
<table>
<tr><th>Sr. No.</th><th>Name of employees</th><th>Designation</th><th>Tech. Qualification</th></tr>
<tr><td>1</td><td>K S Badlani</td><td>Sr. VP (I&MB, U&EC, PLM & FU) & MR</td><td>B.E (Chemical)</td></tr>
<tr><td>2</td><td>P D Kachchhi</td><td>Chief (U&EC &, TTWWP)& Dy.MR</td><td>B.E. (Env.), PDIS</td></tr>
<tr><td>3</td><td>Mrs.S Y Singh</td><td>Chief (EC & IMS)</td><td>B.E. (Civil)</td></tr>
<tr><td>4</td><td>Prashant U Kadu</td><td>Sr. Mgr (EC)</td><td>B.E. (TEXTILE)</td></tr>
<tr><td>5</td><td>Jaxesh P Trivedi</td><td>Mgr (EC)</td><td>B.E (Chemical), M.Tech (EPD), PDIS</td></tr>
<tr><td>6</td><td>Ashok H Shah</td><td>Mgr(EC)</td><td>B. Sc (Chemistry)</td></tr>
<tr><td>7</td><td>Jayesh M Dave</td><td>Mgr(EC)</td><td>B. Sc (Chemistry)</td></tr>
<tr><td>8</td><td>Prateek Jain</td><td>Dy.Mgr (EC).</td><td>B. Tech. (Chem.)</td></tr>
<tr><td>9</td><td>Pankaj K Sharma</td><td>Dy.Mgr (EC)..</td><td>B.Tech. (Chem.)</td></tr>
</table>
</td></tr>
</table>

10	Mosmi M Patel	Asst.Mgr (EC)...	B.Tech. (RE & EE)
11	H V Shah	Plant Engr.	B. Sc (Chemistry)
12	Ambalal K Rana	Sr.Operator	B. Sc (Chemistry)
13	Anil L Arora	Sr.Operator	B. Sc (Chemistry)
14	Vipul R Upadhyay	Sr.Operator	B. Sc (Chemistry)
15	Rajesh H Patel	Sr. Operator	B. Sc (Chemistry)
16	Kanubhai B Padhiyar	Sr. Operator	B. Sc (Chemistry)
17	Hitesh D Patel	Sr. Operator	M.Sc (Env. Sci.)
18	K S Dave	Sr. Operator	B. Sc (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)

* Total 12 nos. workmen available.

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.

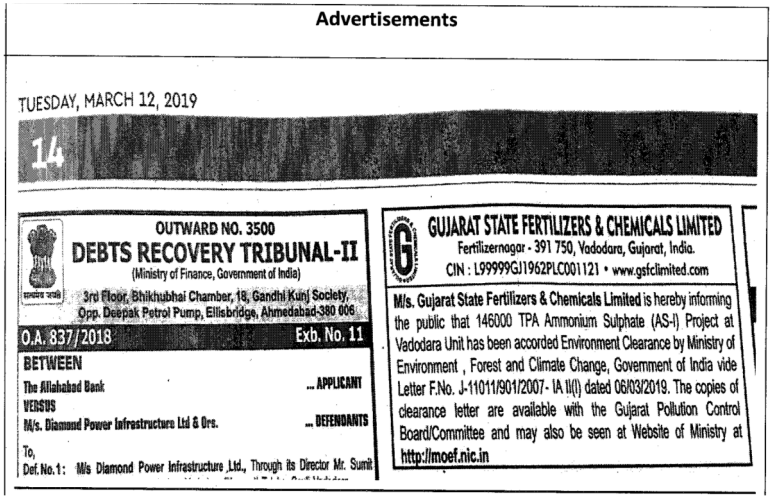
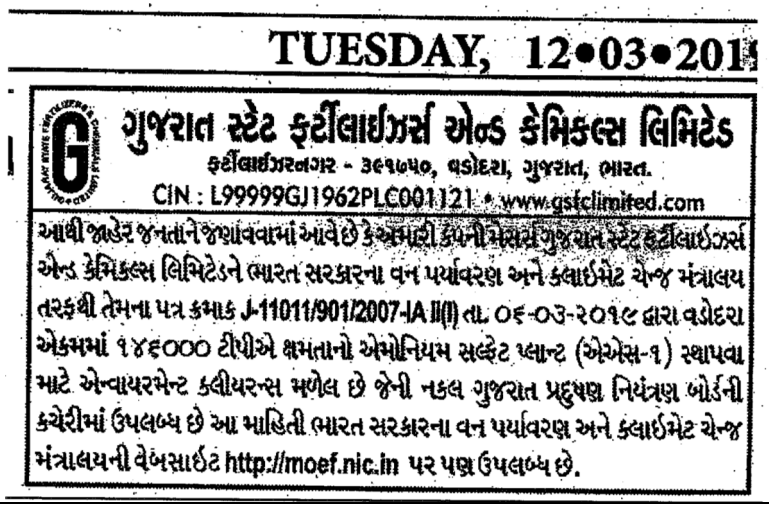
<table>
<tr><td></td><td></td><td>Equipments are available for in-house gaseous monitoring for parameters like SO2 & SO3, NH3, F & NOX.

For spot analysis of gaseous pollutant (Equipment: Dragger tube (available) and pump)</td></tr>
<tr><td>9.1 (xi).</td><td>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</td><td>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.

Capital Expenditure incurred over last 3 years are given below.

<u>Past three year investment in pollution control:</u>
<table><tr><th>Description</th><th colspan="3">Expenses in lakhs</th></tr><tr><th></th><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>Budget is prepared every year for the expenses to be carried out by Environment Control dept.</td></tr>
<tr><td>9.1 (xii).</td><td>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</td><td>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 31st August 1987.</td></tr>
</table>

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.** Half-yearly compliance report is regularly prepared and submitted to regulatory authorities.
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 respective Regional offices 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.

9.1 (xv).	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	**Complied**. GSFC has published advertisement of Env. Clearance in local news papers i.e. Indian Express & Sandesh newspapers on 12/03/2019.  Advertisements TUESDAY, MARCH 12, 2019 14 OUTWARD NO. 3500 DEBTS RECOVERY TRIBUNAL-II (Ministry of Finance, Government of India) 3rd Floor, Bhikhubhai Chamber, 18, Gandhi Kunj Society, Opp. Deepak Petrol Pump, Ellisbridge, Ahmedabad-380 006 O.A. 837/2018 Exb. No. 11 BETWEEN The Allahabad Bank ... APPLICANT VERSUS M/s. Diamond Power Infrastructure Ltd & Ors. ... DEFENDANTS To, Def. No.1: M/s Diamond Power Infrastructure Ltd., Through its Director Mr. Sumit GUJARAT STATE FERTILIZERS & CHEMICALS LIMITED Fertilizernagar - 391 750, Vadodara, Gujarat, India. CIN : L99999GJ1962PLC001121 • www.gsfclimited.com M/s. Gujarat State Fertilizers & Chemicals Limited is hereby informing the public that 146000 TPA Ammonium Sulphate (AS-I) Project at Vadodara Unit has been accorded Environment Clearance by Ministry of Environment , Forest and Climate Change, Government of India vide Letter F.No. J-11011/901/2007- IA II(I) dated 06/03/2019. The copies of clearance letter are available with the Gujarat Pollution Control Board/Committee and may also be seen at Website of Ministry at http://moef.nic.in  TUESDAY, 12•03•201 ગુજરાત સ્ટેટ ફર્ટીલાઈઝર્સ એન્ડ કેમિકલ્સ લિમિટેડ ફર્ટીલાઈઝરનગર - ૩૯૧૭૫૦, વડોદરા, ગુજરાત, ભારત. CIN : L99999GJ1962PLC001121 • www.gsfclimited.com આથી જાહેર જનતાને જણાવવામાં આવે છે કે અમારી કંપની મેસર્સ ગુજરાત સ્ટેટ ફર્ટીલાઈઝર્સ એન્ડ કેમિકલ્સ લિમિટેડને ભારત સરકારના વન પર્યાવરણ અને ક્લાઈમેટ ચેન્જ મંત્રાલય તરફથી તેમના પત્ર ક્રમાક J-11011/901/2007-IA II(I) તા. ૦૬-૦૩-૨૦૧૯ દ્વારા વડોદરા એકમમાં ૧૪૬૦૦૦ ટીપીએ ક્ષમતાનો એમોનિયમ સલ્ફેટ પ્લાન્ટ (એએસ-૧) સ્થાપવા માટે એન્વાયરમેન્ટ ક્લીયરન્સ મળેલ છે જેની નકલ ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડની કચેરીમાં ઉપલબ્ધ છે આ માહિતી ભારત સરકારના વન પર્યાવરણ અને ક્લાઈમેટ ચેન્જ મંત્રાલયની વેબસાઈટ http://moef.nic.in પર પણ ઉપલબ્ધ છે.

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

PART – 1 DATA SHEET

No.	Conditions	Compliance (April '24 – Sept '24)
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 22^0 22' 26.2" N and 73^0 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, PLM & FU) & MR 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 process designed in such a way that the reuse of water from once through water from APS plant in AS-I plant, the 73 KLD from the industrial activity will be 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

<table>
<tr><td></td><td></td><td>is connected to CPCB/GPCB server since 22.04.2020</td></tr>
<tr><td>7.</td><td>Breakup of the Project Area
a) Submergence area : Forest & Non-Forest
b) Others</td><td>Not Applicable
Utilizing existing land by modifying existing AS-I Plant.</td></tr>
<tr><td>8.</td><td>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)</td><td>Not Applicable</td></tr>
<tr><td>9</td><td>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.</td><td>a. Estimated Cost Rs. 875 Lac but actual cost is Rs. 675 Lac.

b. It is included in the project cost. -2019
<table>
<tr><th>SR NO</th><th>ITEM CODE</th><th>QUANTITY UNIT</th><th>UNIT RATE (IN INR)</th></tr>
<tr><td>1</td><td>ONLINE SPM AND NOX ANALYZERS, FLOW METER CONSISTING OF THE FOLLOWING :- (1A) GAS ANALYSIS SYSTEM FOR MEASUREMENT OF NOx AT DRYER VENT STACK (1B) ¼" PTFE SAMPLE GAS TUBE (2) DUST MONITORING ANALYSER (3) ANALYSER HOUSING SHELTER</td><td>1.000 SET</td><td>3,916,748.28</td></tr>
</table>
</td></tr>
</table>

			(4) STACK PRESSURE MEASUREMENT (5) STACK TEMPERATURE MEASUREMENT (6) STACK FLOW MEASUREMENT (7A) INTER CONNECTING CABLE # POWER CABLES WITH SS CABLE GLAND (7B) INTER CONNECTING CABLE # SIGNAL CABLES WITH SS CABLE GLAND (8A) SS TUBE # ½" (8B) SS TUBE # ¼" (9) CABLE TRAY- 100 MM SIZE		
	c) Benefit cost ratio/Internal rate of Return and the year of assessment		c) --		
	d) Whether (c) includes the cost of environmental management as shown in the above		d) --		
	e) Actual expenditure incurred on the Project so far.		e) 675 lac.		
	f) Actual expenditure incurred on the environmental management plans so far.		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 39.16 lac.		

10	**Forest Land Requirement** a) The status of approval for diversion of forest land for non-forestry use b) The status of clearing felling. c) The status of compensatory afforestation, if any. Comments on the viability & sustainability Of compensatory afforestation program In the light of actual field experience so far	Not Applicable
11	**The Status of Clear Felling** in non-forest Areas (suchas submergence area or Reservoir, approachroads), 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. Dy. Director- MoEF from IRO-Gandhinagar visited on 12.05.23.

Status of the AS-I Plant: Plant is started since 02.04.2019.