

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.: IA/GJ/IND2/80904/2007 dated 17th October, 2018

EC Compliance report for period: Apr 20 to Sep 20.

Date of start of production: 02.04.2019

Production for period April 20 to Sept. 20:

Month	Actual Production (MT)
Apr-20	6580
May-20	11580
Jun-20	10560
Jul-20	11740
Aug-20	11710
Sep-20	11700
Total Prod. (MT)	63870
Prod. Quantity as per consent	146000 MTPA

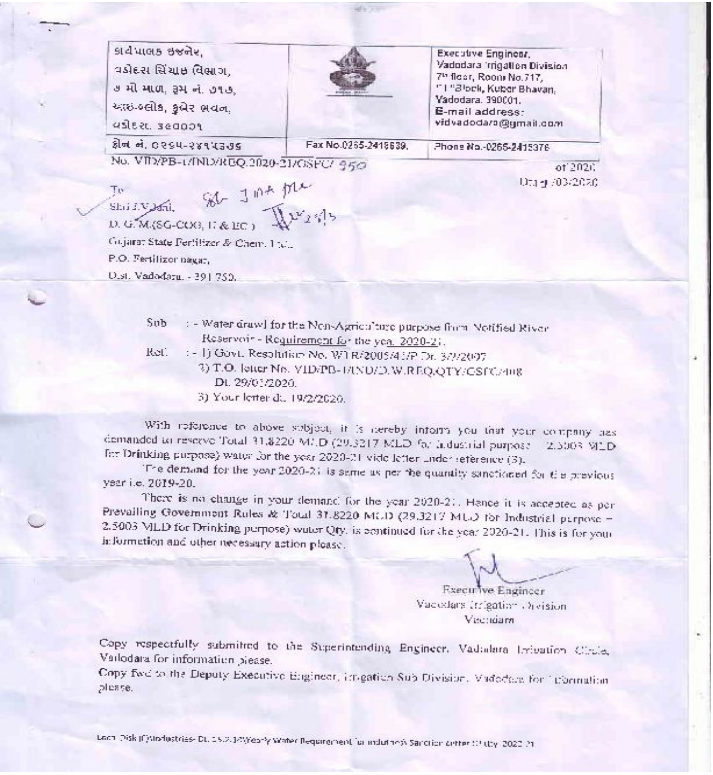
COMPLIANCE OF ENVIRONMENTAL CLEARANCE CONDITIONS OF 146000 MTPA AS-I EXPANSION PROJECT

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

Sr. No.	Condition	Compliance Status (Period April '20 to Sept'20)																																																																		
1 to 7	Conditions 1 to 7 are general conditions.																																																																			
8.	<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>Avg. Quantity of treated effluent of 11074 cum/day (April '20 to Sept.'20) 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: 14/11/2021). Avg. results for the period April'20 to Sept'20 are within the permissible limit given by GPCB. Details (Parameter wise max. Min. & Avg.) are given below in tabular format. Copies of test reports are enclosed separately.</p> <p>Analysis results of final discharged effluent done by external NABL approved lab (min, max, avg and comparison with GPCB norms):</p> <p>For Compliance Period April.20 to Sept. 20:</p> <table border="1" data-bbox="943 951 1917 1382"> <thead> <tr> <th>Parameters</th> <th>UNIT</th> <th>Permissible Limit</th> <th>Avg</th> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>pH value</td> <td>-</td> <td>6.5 to 8.5</td> <td>7.3</td> <td>6.5</td> <td>7.8</td> </tr> <tr> <td>Colour</td> <td>Pt.Co.</td> <td>100</td> <td>44</td> <td>30</td> <td>55</td> </tr> <tr> <td>S.S</td> <td>mg/l</td> <td>100</td> <td>25</td> <td>7</td> <td>45</td> </tr> <tr> <td>COD</td> <td>mg/l</td> <td>250</td> <td>215</td> <td>178</td> <td>243</td> </tr> <tr> <td>BOD</td> <td>mg/l</td> <td>100</td> <td>37</td> <td>26</td> <td>46</td> </tr> <tr> <td>Oil & Grease</td> <td>mg/l</td> <td>10</td> <td>1.1</td> <td>0.8</td> <td>1.4</td> </tr> <tr> <td>Ammonical Nitrogen</td> <td>mg/l</td> <td>50</td> <td>11.9</td> <td>7.6</td> <td>16.2</td> </tr> <tr> <td>Ph.compounds</td> <td>mg/l</td> <td>1</td> <td><0.1</td> <td><0.1</td> <td><0.1</td> </tr> <tr> <td>Fluorides</td> <td>mg/l</td> <td>1.5</td> <td>0.7</td> <td>0.3</td> <td>1.0</td> </tr> <tr> <td>Cyanides</td> <td>mg/l</td> <td>0.2</td> <td><0.05</td> <td><0.05</td> <td><0.05</td> </tr> </tbody> </table>	Parameters	UNIT	Permissible Limit	Avg	Min	Max	pH value	-	6.5 to 8.5	7.3	6.5	7.8	Colour	Pt.Co.	100	44	30	55	S.S	mg/l	100	25	7	45	COD	mg/l	250	215	178	243	BOD	mg/l	100	37	26	46	Oil & Grease	mg/l	10	1.1	0.8	1.4	Ammonical Nitrogen	mg/l	50	11.9	7.6	16.2	Ph.compounds	mg/l	1	<0.1	<0.1	<0.1	Fluorides	mg/l	1.5	0.7	0.3	1.0	Cyanides	mg/l	0.2	<0.05	<0.05	<0.05
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	<p>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>installed to meet the prescribed norms for particulate matter.</p> <p>The gaseous emission is dispersed thorough stack of 21 meter height as per GPCB guidelines.</p>																																							
<p>10.</p>	<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. (attached at the end.)</p> <p>Prior permission in this regard shall be obtained from the concerned regulatory authority</p>	<p>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 Division (VID) for the year 2020-21 vide letter no. VID/PB-1/IND/REQ.2020-21/GSFC/950 dated 19/03/20. They are allowing +/-25% water withdrawal of permissible limit on annual basis without any penalty. Avg. water drawl for the period April'20 to Sept'20 is 31.038 MLD for GSFC Baroda complex.</p>																																							
		<p>Month wise records of water withdrawal from Mahi river for GSFC complex:</p> <table border="1" data-bbox="913 986 1944 1315"> <thead> <tr> <th>Month</th> <th>Avg. (m3/D)</th> <th>Minimum (m3/D)</th> <th>Maximum (m3/D)</th> <th>Permission limit from VID on daily basis (m3/D)</th> </tr> </thead> <tbody> <tr> <td>April-20</td> <td>20016</td> <td>11635</td> <td>29057</td> <td>23866.5- 39777.5</td> </tr> <tr> <td>May-20</td> <td>26506</td> <td>16652</td> <td>31360</td> <td>23866.5- 39777.5</td> </tr> <tr> <td>June-20</td> <td>27806</td> <td>21401</td> <td>31065</td> <td>23866.5- 39777.5</td> </tr> <tr> <td>July-20</td> <td>27045</td> <td>22961</td> <td>28308</td> <td>23866.5- 39777.5</td> </tr> <tr> <td>Aug-20</td> <td>26738</td> <td>20584</td> <td>31522</td> <td>23866.5- 39777.5</td> </tr> <tr> <td>Sept-20</td> <td>27389</td> <td>22065</td> <td>28796</td> <td>23866.5- 39777.5</td> </tr> </tbody> </table>					Month	Avg. (m3/D)	Minimum (m3/D)	Maximum (m3/D)	Permission limit from VID on daily basis (m3/D)	April-20	20016	11635	29057	23866.5- 39777.5	May-20	26506	16652	31360	23866.5- 39777.5	June-20	27806	21401	31065	23866.5- 39777.5	July-20	27045	22961	28308	23866.5- 39777.5	Aug-20	26738	20584	31522	23866.5- 39777.5	Sept-20	27389	22065	28796	23866.5- 39777.5
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	 <p style="text-align: center;">Permission letter from VMC for water withdrawal</p>	
<p>11.</p>	<p>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</p>	<p>Complied. The Trenches provided for effluent collection to avoid mixing with storm water.</p>
<p>12.</p>	<p>Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc.</p>	<p>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</p>

	Flame arresters shall be provided on tank farm, and solvent transfer through pumps	stored at their designated tank farm area. No solvent is used in AS-I plant.
13.	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.
14.	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.
15.	Use of high pressure hoses for equipment clearing to reduce wastewater generation	Complied. High pressure hoses are used for cleaning purpose.
16.	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.
17.	Use of automated filling to minimize spillage	Complied. Automated filling is exists.
18.	Use of Close Feed system into batch reactors	Complied. Continuous reactors closed feed system is being practiced.
19.	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.
20.	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	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.

	Forest Department	<table border="1"> <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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21.	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>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"> <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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22.	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	No DG sets is installed in the plant.																		
23.	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	<p>Complied. Fire is classified in following three classes. The appropriate fire extinguishers are placed to extinguish the different class of fire.</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>																																
24.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act	<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 April'20 to Sept'20:</u></p> <table border="1" data-bbox="936 639 1899 940"> <thead> <tr> <th>Month</th> <th>Periodical medical Examination numbers</th> </tr> </thead> <tbody> <tr> <td>April-20</td> <td>0</td> </tr> <tr> <td>May-20</td> <td>88</td> </tr> <tr> <td>June-20</td> <td>215</td> </tr> <tr> <td>July-20</td> <td>0</td> </tr> <tr> <td>Aug-20</td> <td>156</td> </tr> <tr> <td>Sept-20</td> <td>86</td> </tr> <tr> <td>Total</td> <td>545</td> </tr> </tbody> </table> <p><u>Pre-Medical Examination details: April.2020 to September.2020</u></p> <table border="1" data-bbox="927 1042 1908 1337"> <thead> <tr> <th>Month</th> <th>Pre-medical Examination numbers</th> </tr> </thead> <tbody> <tr> <td>April-20</td> <td>2</td> </tr> <tr> <td>May-20</td> <td>2</td> </tr> <tr> <td>June-20</td> <td>1</td> </tr> <tr> <td>July-20</td> <td>33</td> </tr> <tr> <td>Aug-20</td> <td>46</td> </tr> <tr> <td>Sept-20</td> <td>20</td> </tr> <tr> <td>Total</td> <td>104</td> </tr> </tbody> </table>	Month	Periodical medical Examination numbers	April-20	0	May-20	88	June-20	215	July-20	0	Aug-20	156	Sept-20	86	Total	545	Month	Pre-medical Examination numbers	April-20	2	May-20	2	June-20	1	July-20	33	Aug-20	46	Sept-20	20	Total	104
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25.	Transportation of raw materials/products should be carefully performed using GPS enabled vehicles	Transportation of Ammonia and other hazardous chemicals are performed through GPS enabled vehicles. GPS enabled transportation for A.S will be done after Dec-'20 under revised contract.																																							
26.	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 27 stacks in the premises.</p> <table border="1"> <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">April'20 to Sept'20</td> <td>Avg.</td> <td>31.60</td> <td>26.11</td> </tr> <tr> <td>Min</td> <td>30.20</td> <td>3.52</td> </tr> <tr> <td>Max</td> <td>33.00</td> <td>69.1</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	April'20 to Sept'20	Avg.	31.60	26.11	Min	30.20	3.52	Max	33.00	69.1	GPCB Norms (mg/Nm3)		150	150																			
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27.	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),																													
28.	<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>																													
29.	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. he National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be complied with	<p>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.</p> <p><u>Ambient air analysis reports for compliance period April.20 to Sept'20:</u></p> <table border="1" data-bbox="902 1082 1944 1337"> <thead> <tr> <th rowspan="2">LOCATI ON</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>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> </thead> <tbody> <tr> <td>Vadnaga r Tank Farm</td> <td>2.8</td> <td>2.1</td> <td>7.1</td> <td>8.9</td> <td>3.6</td> <td>13.5</td> <td>1.7</td> <td>1</td> <td>4.9</td> </tr> </tbody> </table>	LOCATI ON	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	Vadnaga r Tank Farm	2.8	2.1	7.1	8.9	3.6	13.5	1.7	1	4.9
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		Dashrath Village	15.2	13.5	16.4	17.0	16.3	18.1	5.7	5.1	7.9																																									
		Nr. Godama Pump, Channi	5.0	3.5	9.1	10.5	9.2	15.4	3.5	2.6	6.6																																									
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		<p>Test report is enclosed separately. AAQM annual avg. results are also submitted to SPCB as a part of form -4.</p> <p>All the online ambient air quality monitoring stations are connected to GPCB & CPCB server.</p>																																																		
30.	<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</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. Copies of test reports are also attached.</p>																																																		

	to the standards prescribed under the Environment (Protection) Act, 1986 and the rules made there under	<p>Noise Level for compliance period April.20 to Sept'20:</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>50.9</td> <td>37</td> <td>65.2</td> <td>43.15</td> <td>30.1</td> <td>56.4</td> </tr> <tr> <td>Nr Adm. Building</td> <td>56.85</td> <td>46.1</td> <td>67.3</td> <td>55.45</td> <td>47.1</td> <td>63.5</td> </tr> <tr> <td>B/H SA-IV</td> <td>49.8</td> <td>36.3</td> <td>63.6</td> <td>50.4</td> <td>40.1</td> <td>61.1</td> </tr> <tr> <td>Vadnagar Tank Farm</td> <td>45.3</td> <td>31.4</td> <td>59</td> <td>44.75</td> <td>28.2</td> <td>58.7</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	50.9	37	65.2	43.15	30.1	56.4	Nr Adm. Building	56.85	46.1	67.3	55.45	47.1	63.5	B/H SA-IV	49.8	36.3	63.6	50.4	40.1	61.1	Vadnagar Tank Farm	45.3	31.4	59	44.75	28.2	58.7
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31.	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.																																									
32.	Training shall be imparted to all employees on safety and health aspects of chemicals handling.	<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 April'20- Sept'20 by Safety department.</p> <table border="1"> <thead> <tr> <th>Month</th> <th>Training Topic</th> <th>Nos. of members present</th> </tr> </thead> <tbody> <tr> <td>April '20</td> <td>Due to corona virus all the training postponed</td> <td>-</td> </tr> <tr> <td>May '20</td> <td>Training program on ' work permit system"</td> <td>66</td> </tr> <tr> <td>June'20</td> <td>Hot Work Permit and Vessel Opening/Line Breaking Permit</td> <td>15</td> </tr> <tr> <td>July'20</td> <td>Confined Space Entry Permit</td> <td>12</td> </tr> <tr> <td>Aug'20</td> <td>NIL</td> <td>-</td> </tr> <tr> <td>Sept'20</td> <td>.NIL</td> <td>-</td> </tr> </tbody> </table>	Month	Training Topic	Nos. of members present	April '20	Due to corona virus all the training postponed	-	May '20	Training program on ' work permit system"	66	June'20	Hot Work Permit and Vessel Opening/Line Breaking Permit	15	July'20	Confined Space Entry Permit	12	Aug'20	NIL	-	Sept'20	.NIL	-																				
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	<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>For periodical medical examination, please refer point no. 24</p>
<p>33.</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 management, risk mitigation measures and public hearing shall be implemented</p>	<p>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>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 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

		<p>team and manned for 24 hours.  ECC for any emergency.  Mock drills are carried out for different scenarios.</p>																									
34.	<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. However, GSFC is continuous working for environment and welfare activities as per following details; CSR Expenditure incurred from April'20 – Sept'20:</p> <table border="1" data-bbox="913 456 1877 794"> <thead> <tr> <th>Sr.</th> <th>Details</th> <th>Amount Rs.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Education</td> <td>36,63,000</td> </tr> <tr> <td>2</td> <td>Contribution and Donation</td> <td>52,63,341</td> </tr> <tr> <td>3</td> <td>Drinking water facility in nearby villages of BU</td> <td>12,42,192</td> </tr> <tr> <td>4</td> <td>Misc. welfare activities at Jamnagar</td> <td>23,93,458</td> </tr> <tr> <td>5</td> <td>Other Local Activities & Tribal Development</td> <td>5,11,000</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total</td> <td>1,30,72,991</td> </tr> </tbody> </table> <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> <table border="1" data-bbox="902 1066 1917 1374"> <thead> <tr> <th>Area</th> <th>Project</th> </tr> </thead> <tbody> <tr> <td>Education</td> <td> <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 </td> </tr> </tbody> </table>	Sr.	Details	Amount Rs.	1	Education	36,63,000	2	Contribution and Donation	52,63,341	3	Drinking water facility in nearby villages of BU	12,42,192	4	Misc. welfare activities at Jamnagar	23,93,458	5	Other Local Activities & Tribal Development	5,11,000	Total		1,30,72,991	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
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			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.
		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
35.	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. EC Dept. Staff list:</p>	

Sr. No.	Name of employees	Designation	Tech. Qualification
1	S J Parikh	SVP (U & EC)	B.E (Chemical)
2	K S Badlani	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), M.Tech(EPD), PDIS
7	Ashok H Shah	Addl.Mgr (EC)	B. Sc (Chemistry)
8	Jayesh M Dave	Addl.Mgr (EC)	B. Sc (Chemistry)
9	Prateek Jain	Dy.Mgr (EC)	B. Tech. (Chem.)
10	Pankaj Kumar Sharma	Plant Engineer.	B. Tech. (Chem.)
11	Mosmi M Patel	Env. Engg.	B.Tech. (RE & EE)
12	Rajesh K Desai	Foreman	B.SC Chemistry, DIPC, MS in Env. Sci. under DLP
13	Ambalal K Rana	Sr.Operator	B. Sc (Chemistry)
14	Anil L Arora	Sr.Operator	B. Sc (Chemistry)
15	M R Chandlekar	Sr.Operator	ITI
16	Vipul R Upadhyay	Sr.Operator	B. Sc (Chemistry)
17	Himanshu G Patel	Sr.Operator	B. Sc (Chemistry)
18	PC Maisuriya	Sr.Operator	SSC
19	H V Shah	Sr.Operator	B. Sc (Chemistry)
20	Hitendra R Desai	Sr.Operator	B. Sc (Chemistry)
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	Ranjitsinh C Shinora	Jr. Operator	SSC Pass
		27	Pankaj C Patel	Jr. Operator	HSC Pass
		28	Biren R Patel	Jr. Operator	M.Sc. Env. Sci. Cert. Disaster Management PDIS
		29	Purvish S Shah	Jr. Operator	M.Sc. Env. Sci. Cert. Disaster Management
		30	V R Rabari	Jr. Operator	HSC
		31	Jayesh S Patel	Attendant	B.Sc. Chemistry
		32	Bhavdip S Vamja	Assistant Operator	B.Sc Chemistry
		33	Gami Ravi kumar	Assistant Operator	B.Sc Chemistry
		<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>An actual operational expense for Environment Management Cell for the year 2019-20 is 16.97 crores.</p>			
36.	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	<p>GSFC has provided adequate funds to implement the conditions stipulated by the MoEF and it is integral part of the project.</p> <p>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.</p>			

	<p>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><u>Past three year investment in pollution control:</u></p> <table border="1" data-bbox="913 260 1899 499"> <thead> <tr> <th rowspan="2">Description</th> <th colspan="3">Expenses in lakhs</th> </tr> <tr> <th>2017-18</th> <th>2018-19</th> <th>2019-20</th> </tr> </thead> <tbody> <tr> <td>Investment in Pollution control</td> <td>4139.33</td> <td>4129.21</td> <td>4150.89</td> </tr> <tr> <td>Total Investment</td> <td>422581.47</td> <td>505740.60</td> <td>515347.37</td> </tr> </tbody> </table> <p><u>Operation Expenses for Environment Control division for the year 2019-20 :</u> Rs. 16.97 Crores</p> <p>Budget is prepared every year for the expenses to be carried out by Environment Control dept.</p>	Description	Expenses in lakhs			2017-18	2018-19	2019-20	Investment in Pollution control	4139.33	4129.21	4150.89	Total Investment	422581.47	505740.60	515347.37
Description	Expenses in lakhs																
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Investment in Pollution control	4139.33	4129.21	4150.89														
Total Investment	422581.47	505740.60	515347.37														
<p>37.</p>	<p>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</p>	<p>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.</p>															
<p>38.</p>	<p>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</p>	<p>Complied.</p>															

	status report shall be posted on the website of the company	
39.	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/10/2019-20 dtd.13.06.20 for the year 2019-20 attached as Annexure-VI
40.	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>Complied, GSFC has published advertisement of Env. Clearance in local news papers i.e. Indian Express & Sandesh newspapers on 12/03/2019.</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>TUESDAY, 12•03•2019</p> <p>ગુજરાત સ્ટેટ ફર્ટીલાઇઝર્સ એન્ડ કેમિકલ્સ લિમિટેડ ફર્ટીલાઇઝર્સનગર - ૩૬૧૦૫૦, વડોદરા, ગુજરાત, ભારત. CIN : L99999GJ1962PLC001121 • www.gsfclimited.com</p> <p>આથી જાહેર જનતાને જણાવવામાં આવે છે કે અમારી કંપની ભારત ગુજરાત સ્ટેટ ફર્ટીલાઇઝર્સ એન્ડ કેમિકલ્સ લિમિટેડને ભારત સરકારના વન પર્યાવરણ અને ક્વાર્ટમેટ યેન્જ મંત્રાલય તરફથી તેમના પત્ર ક્રમાંક 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 ક્વાર્ટમેટ યેન્જ મંત્રાલયની વેબસાઇટ http://moef.nic.in પર પણ ઉપલબ્ધ છે.</p> </div>

		<p style="text-align: center;">Advertisements</p> <p style="text-align: center;">TUESDAY, MARCH 12, 2019</p> <div style="background-color: black; color: white; text-align: center; padding: 5px; font-size: 24px; font-weight: bold;">14</div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div data-bbox="1041 438 1400 710" style="width: 45%; border: 1px solid black; padding: 5px;"> <p style="text-align: center;">OUTWARD NO. 3500 DEBTS RECOVERY TRIBUNAL-II (Ministry of Finance, Government of India)</p> <p style="text-align: center; font-size: 8px;">Sri Floor, Bhikhubhai Chamber, 18, Gandhi Kuni Society, Opp. Deepak Petrol Pump, Ellisbridge, Ahmedabad-380 006</p> <p style="text-align: center;">O.A. 837/2018 Exb. No. 11</p> <p>BETWEEN</p> <p>The Allahabad Bank ... APPLICANT</p> <p>VERSUS</p> <p>M/s. Diamond Power Infrastructure Ltd & Ors. ... DEFENDANTS</p> <p>To, Def.No.1: M/s Diamond Power Infrastructure Ltd., Through its Director Mr. Sumit</p> </div> <div data-bbox="1400 438 1780 710" style="width: 45%; border: 1px solid black; padding: 5px;"> <p style="text-align: center;">G GUJARAT STATE FERTILIZERS & CHEMICALS LIMITED Fertilizernagar - 391 750, Vadodara, Gujarat, India. CIN : L99999GJ1962PLC001121 • www.gsfclimited.com</p> <p>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-11011/801/2007- IA II(i) dated 06/03/2018. 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</p> </div> </div>
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Monitoring the Implementation of Environmental Safeguards Ministry of Environment & Forests
Western Region, Regional Office, Bhopal MONITORING REPORT

PART – 1 DATA SHEET

No.	Conditions	Compliance on Sept. 2020
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. S. K. Vora, AVP (P-Capro-I, MEKO, Ny-6 & AS) Gujarat State Fertilizers & Chemicals Limited P.O. Fertilizernagar – 391750 Dist. ; Vadodara, Gujarat Tele. No. : (0265) 3092737
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 Sulphahte 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 is connected to CPCB/GPCB server since 22.04.2020

7.	<p>Breakup of the Project Area a) Submergence area : Forest & Non-Forest b) Others</p>	<p>Not Applicable Utilizing existing land by modifying existing AS-I Plant.</p>			
8.	<p>Breakup of the project affected population with enumeration of those Losing Houses/ Dwelling Units only, Agricultural Land only, Both Dwelling Units & Agricultural Land & Landless Laborers/ Artisans : 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)</p>	<p>Not Applicable</p>			
9	<p>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. c) Benefit cost ratio/Internal rate of Return and the year of assessment d) Whether (c) includes the cost of environmental management as shown in the above e) Actual expenditure incurred on the Project so far.</p>	<p>a. Estimated Cost Rs. 875 Lac but actual cost is Rs. 675 Lac. b. It is included in the project cost. -2019 c) Not applicable d) Not applicable e) 675 lac..</p>	<table border="1" data-bbox="981 879 1957 978"> <tr> <td data-bbox="981 879 1462 978">Online PM Monitoring</td> <td data-bbox="1462 879 1957 978">Particulate Matter measurement from stack</td> </tr> </table>	Online PM Monitoring	Particulate Matter measurement from stack
Online PM Monitoring	Particulate Matter measurement from stack				

	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 55 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 (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.	GPCB last visited on 28/08/2020. Scientist (D) of MoEF visited on 17.07.2018 & 26.07.19.

EC amendment Letter



F. No. J-11011/901/2007-IA.II (I)
 Government of India
 Ministry of Environment, Forest & Climate Change
 Impact Assessment Division

Indira Paryavaran Bhavan,
 Vayu Wing, 3rd Floor, Aliganj,
 Jor Bagh Road, New Delhi-110 003

Dated: 8th May, 2020

To,
M/s Gujarat State Fertilizers & Chemicals Ltd,
 Fertilizer Nagar,
 District **Vadodara** (Gujarat)

Sub: Expansion in Existing Plant Facility for Production of Ammonium Sulphate (AS-I) - 1,46,000 TPA at Vadodara (Gujarat) by M/s Gujarat State Fertilizers & Chemicals Ltd - Amendment in Environment Clearance - reg.

Sir,

This has reference to your online proposal No. IA/GJ/IND2/135966/2020 dated 9th January, 2020 for amendment in the Environmental Clearance (EC) to the above project.

2. The EC for the aforesaid project was granted by the Ministry *vide* even number of letter dated 6th March, 2019.
3. The proposal was considered by the EAC in its meeting held on 25-27 February, 2020. The EAC, after detailed deliberations, has recommended the proposed proposal for the following amendment in the EC of even number dated 6th March, 2019.

S. No.	Para of EC	Details as per the EC	To be revised/ read as
1	9(iv)	Total fresh water requirement for the fertilizer plant, including that for the proposed expansion, shall not exceed 30368 cum/day, proposed to be met through existing water supply from Mahi River. Prior permission in this regard shall be obtained from the concerned regulatory authority.	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. Prior permission in this regard shall be obtained from the concerned regulatory authority.

4. All other terms and conditions stipulated in the EC of even number dated 6th March, 2019 shall remain as such.
5. This issues with approval of the competent Authority.

(Dr. R. B. Lal)
Scientist 'E'
(Dr. R. B. Lal)
 Scientist 'E'
 Ministry of Environment, Forest and Climate Change
 Government of India

Copy to :-

1. The Secretary, Forest & Environment Department, Govt. of Gujarat, Block 14, 8th Floor, Sachivalaya, Gandhinagar - 382 010, Gujarat.
2. The Additional Principal Chief Conservator of Forests, MoEF&CC, Regional Office (WZ) E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal-462 016.
3. The Member Secretary, GPCB, Paryavaran Bhawan, Sector 10-A, Gandhinagar - 382 010, Gujarat.
4. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 3.
5. Guard File/ Record File/ Monitoring File/ Website of MoEF&CC

(Dr. R. B. Lal)
Scientist 'E'