COMPLIANCE OF CONDITIONS GIVEN IN ENVIRONMENT CLEARANCE NO. :J-11011/901/2007-IA-II(I) DATED 28.12.2023 - FOR MANUFACTURING OF FORTIFIED LIQUID BORONATED CALCIUM NITRATE (LBCN) PLANT WITH PRODUCTION CAPACITY OF 1100 KLPA (3.333 KLPD) IN EXISTING GSFC COMPLEX

Sr. No.	Conditions		Compliance Status (Period April '24 to Sep	o '24)		
1.1	SPECIFIC CONDITION					
(1)	Adequate stack height as per CPCB/SPCB guidelines shall be provided. Stack emission levels shall be stringent than the existing standards.	is proposed				
			adequate stack height is provided for existing sta B guidelines.	icks of GSFC as per		
(2)	CEMS shall be installed and connected to SPCB/CPCB Servers.	However, (	For LBCN Project, there will be no gaseous emiss CEMS has been installed in 30 nos. stacks in the ent Monitoring System (RTEMS) has been insta	e premise and Real		
		discharge	points. The system is also connected to GPCB &			
(3)	Effective fugitive emission control measures shall be adopted in the process, transportation, packing etc.	<b>Complied,</b> The production process is batch manner in closed loop and there will be no fugitive emission during the process. The product shall be packed and transported in sealed HDPE bottles				
(4)	Transportation of materials by rail/conveyor belt, wherever feasible, shall be explored.	<b>Noted.</b> The product shall be packed and stored in plant area. No need of long distance transfer within the premise.				
(5)	As proposed, Natural gas shall be used as a primary fuel, fuels like LSHS (Low Sulphur Heavy Stock), Hydrocarbon Fuel & High-Speed Diesel (HSD) shall be used as per requirements of the equipment.	Complied, The production process is carried out at atmospheric temperature hence no need of Natural Gas as a primary fuel during the process.				
(6)	The best available technology shall be used.	Complied,	The technology is developed by GSFC in house	R & D Dept.		
(7)	The PP shall develop/mainatin greenbelt over an area of 40 % within premises within a year of the grant of EC. The saplings selected for the plantation should be of sufficient height preferably 6-ft. The budget earmarked for the plantation shall be kept in a separate account and should be audited annually. The PP should annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.	complied.  The total area of premises was 328 ha. Out of which 0.65 Ha. was Bullet Train Project and hence total area is 327.35 ha. The green 133.35 Ha which is 40.73 % of total plot area in which 7.46 Hadeveloped in GSFC owned land in Ranoli, Vadodara located 3. away from the project.  Total 187133 number of trees/plantation available in existing Green in GSFC complex and 15500 numbers of trees/plantation available GB in Ranoli Kotar land.				
		Sr. No.	Particulate	Total Area (Ha)		
		1	Green Belt (In Plant)	39.84		
		2	Green Belt (Township)	86.05		

		GSFC Limited, Vadodara							
		3	Gre	en Belt in Ra	anoli (Kota	ar land),			
		3		ndesari				7.46	
				al GB area (4	40.73%)			133.35	
				al area				327.35	
(8)	The PP shall also develop/ maintain avenue plantation			35 Ha. (40.73					
	over an area of 7.46 Ha. in GSFC owned land in Ranoli,			total green a					
	Vadodara located 3.63 km, NW away from the project.			lex and 7.46					and in
(0)	The terminal state had an end of the little within their			located 3.63					:t
(9)	The transportation load on roads shall be within their carrying capacity and adequate width of roads shall be	•		ransportation of roads is mail					ity and
(10)	maintained inside the industrial premises.						·		
(10)	There shall be no wastewater generation as water			vater use in p					
	generated shall be consumed in product.  0.6 KLD domestic sewage shall be treated as per existing			waste water		enerated d	uring proce	ss and the do	mestic
	practices i.e., treatment in STP & reused for horticultural	water will be treated in existing STP.							
	purposes. Total wastewater generation from the project	However	for th	e other exis	sting plant	ts of GSI	FC. comple	y Treated e	effluent
	after expansion shall not exceed 17259.7 KLD (Industrial								
	Effluent-13637 KLD; Domestic Sewage- 3622.7 KLD).	confirming to GPCB's standard is ultimately discharged to Effluent Conveyance Channel of M/s. Vadodara Enviro Channel Limited (VECL).							
	Effluent from the process plant and associated facitlies			Effluent Disch				:	
	will be treated in the ETP. Treated Industrial effluent from						•	_	
	final discharge ponds conforming to GPCB/CPCB norms	Mont	h	Effluent D	Discharge	d	GPCB Per	missible	7
	shall			in m3/Day(			mit m3/D (li		
	be discharged into common effluent conveyance channel					<i>'</i>	`		
	of VECL	Apr-2	24	66	658		1725		
		May-2	24	78	333		1725		
		Jun-2		87	751			17255.7	
		Jul-2		11	726		17255.7		
		Aug-2	-	11:	510		1725		_
		Sep-2			475		1725		
(11)	Continuous monitoring system for checking effluent			time-Online N					
	quality/quantity shall be installed in the Unit.			meters i.e. pl		BOD, TSS	s, NH4-N an	d it is conne	cted to
				CPCB serve		4.4- 04.6	(O.4-		
		ONS data	ior cor	mpliance perio	od Aprii 24	4 to Sept	<u> 24:</u>		
				TP E	TP				$\overline{}$
					OD	ETP	ETP	ETP	ьн
					Vor	COD	TSS	(Norm	
				· ·		Norms:	(Norms		.5
					00m 2	250mg/l)	100mg/		
					g/l)				
		Avg		12 :	38	128	22	7.5	
		Min			36	109	10	7.4	
		Max			41	181	27	7.7	
(12)	GSFC shall construct/ maintain 15 no. of rainwater	Complied	, GSFC	C has constru	ucted 15 w	vater harve	esting struc	ture (Recharç	ge well

	harvesting structures (Recharge well and Furrat System) across the complex.			stem) in phase wise e filtrations rate is in the				
		Apart from this, GSFC has installed Roof top rainwater harvesting in GSFC Corporate building, A block, ADC, R&D, Central Lab, SDO, Officer Punching Mechanical Store building. @ 12743 m3 of rainwater is collected during April '2 to Sept. '24 and re used for fire water make up.						
		Rain	Water	Harvesting System e	exists at the Guest	House, Science	e Foundation	
			•	Township's resident		•	•	
				Harvesting and Rain ore the rain water run	• .		ve also been	
(13)	Effluent like washing wastewater & Cooling Tower/DMW			Effluent like washing			N Blowdown	
	Blowdown shall be reused in Phosphoric Acid Plant,		-	sed in Phosphoric A		-		
	Process Condensate & RO treated water shall be reused and recycled to other industrial units for cooling and boiler			g reused and recycle			-	
	purposes. Industrial effluent shall be reused/recycles to			dustrial effluent is bei ted in ETP & further	-			
	maximum extent and rest shall be treated in ETP & further discharge to VECL Channel for final disposal at	sea.	ing irea	led in ETP & lutiner	discharge to VECL	Channel for fina	ai disposai at	
	sea.	oou.						
(14)	Domestic sewage shall be treated in the existing Sewage							
	Treatment Plant and treated water shall be reused for horticulture purpose.	existing Sewage Treatment Plant and treated water is being reused for horticulture purpose.						
(15)	Dumping of waste (fly ash, slag, red mud, etc.) shall be			aste such as fly ash,	slag, red mud, etc.	is generated at	GSFC.	
	permitted only at designated locations approved by SPCB/CPCB.							
(16)	Spent oil, discarded containers etc. shall be sent to TSDF	Com	plied.	GSFC complies wit	h the rules and	regulations with	regards to	
	site/registered recycler. Authorization under Hazardous Waste Management Rules has been obtained from GPCB		-	d disposal of Hazard				
	vide CCA Order No. AWH-117101 dated 15.02.2022	Was	te (Mana	agement, Handing an	d Transboundary N	Novement) Rules	S.	
	(valid till 30.09.2028). Hazardous wastes like chemical	Auth	orizatior	n under HWMH Rule	s has been obtaine	ed for collection	/ treatment /	
	sludge from wastewater treatment plants, Spent Catalyst, Organic Waste, Spent Resin, Contaminated Cotton Rags,	stora	ige / dis	sposal of hazardous				
	Carbon Residue, Molten Salt etc. shall be disposed off to	1171	01, valid	d up to 30/09/2028.				
	TSDF/CHWIF Sites.  Used oil and discarded containers shall be sold to	Deta	ils of Ha	azardous Waste gene	erated during April "	24 – Sept '24 fro	om Vadodara	
	registered recycler. No hazardous waste shall be			given below:		Сор		
	generated.		S.no	Name of waste	Authorization from GPCB	Generation (MT)		
			1	ETP Sludge	40 MT/Year	Nil		
			2	Used Oil	250 MT/Year	43.52		
			3	Discarded Containers	10000 nos./Year	4994 Nos.		

			4	Spent Catalyst (Acidic)	35 MT/Year	30	
			5	Spent Catalyst ( Alkaline)	275 MT/Year	30.51	
			6	Organic Waste	20 MT/Year	0.7	
			7	Sulphur Muck	350 MT/Year	247.5	
			8	Carbon residue	7.7 MT/Year	Nil	
			9	Molten Salt	66 MT (in span of 07 years)	Nil	
			10	High Boiling Hydro Carbon	8.25 MT (in span of 07 years)	Nil	
			11	Spent Resin	80 MT/Year	0.04	
			12	Insulation waste	75 MT/year	30	
			13	Contaminated Cotton rags & other cleaning material	5 MT/Year	0.3	
	However, 17 kg/day of silica generated from process of LBCN Plant shall be reused as filler within the premises.	Unde Howe as fill	nic man er the p ever, 17 ler withi	cal sludge of 20.0 M ure manufacturer / far proposed project, the kg/day of silica general the premises.	rmers. re will be no gene	eration of hazaı	dous waste.
(17)	Monitoring of the compliance of EC conditions shall be submitted with third party audit every year.	Note	d.				
(18)	An amount of 21.58 Crores shall be allocated towards CER.	As per the general description point no. 7 & 16 of EC letter, "Industry proposes to allocate Rs. 21.58 Crore for activities to be taken under Corporate Social Responsibility for 2023-24" Same was informed to MoEFCC for correction to replace CER with CSR (since the project cost is Rs. 0.5 Cr. Only) in the EAC MOM vide letter dated 13.10.23.					
(19)	A separate Environmental Management Cell (having qualified persons with Environmental Science/Environmental Engineering/specialization in the project area) equipped with fullfledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions by engaging SVP (OC (U&EC) – Sr. VP (I& MB, U&EC- Chief- Manager ( Shift incharge)- Supervisiors- workman. In addition to this, one safety & health officer as per the qualification given in Factories Act, 1948 shall be engaged within a month of grant of EC. The PP should annually submit the audited	Com labor moni GSF cons Deta alloca	plied. ratory fatoring full C also listing of ils of peated for unt sper	ent Rs. 1,22,76,09/- 1 GSFC has separate acilities & qualified unction. has separate Safety Safety Officers and Mersonnel working in renvironmental depint (Rs. 832.65 Lac) to 3-24 is also available	e environment or personnel for environment and Madeical officers respectively. EMC is given below to activities every owards the engage	ell and having vironment mana ledical departme pectively.  bw. Separate by year. Audited	full-fledged gement and ent incl OHC udget is also statement of

statement of amount spent towards the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during the previous year.

Sr. No.	Name of employees	Designation	Tech. Qualification
1	K S Badlani	Sr. VP (I&MB, U&EC, PLM & FU) & MR	B.E (Chemical)
2	P D Kachchhi	Chief (U&EC &, TTWWP)& Dy.MR	B.E. (Env.), PDIS
3	Mrs.S Y Singh	Chief (EC & IMS)	B.E. (Civil)
4	Prashant U Kadu	Sr. Mgr (EC)	B.E. (TEXTILE)
5	Jaxesh P Trivedi	Mgr (EC)	B.E (Chemical), M.Tech (EPD), PDIS
6	Ashok H Shah	Mgr(EC)	B. Sc (Chemistry)
7	Jayesh M Dave	Mgr(EC)	B. Sc (Chemistry)
8	Prateek Jain	Dy.Mgr (EC).	B. Tech. (Chem.)
9	Pankaj K Sharma	Dy.Mgr (EC)	B.Tech. (Chem.)
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,
20	Direction 101 atol		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

				GSFC I	∟imited, Vadodara
		33	K K Mahida	Asst.Operator (OC)	Dip. (Chemical)
		Equipn Total I	Dissolved Solids, Susp cal Oxygen Demand, F	in-house effluent monitorir ended solids, Ammonical	ng for parameters like PH, Nitrogen, Total Nitrogen, Equipments are available 2, NH3, F& NOX.
(20)	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, and risk mitigation measures relating to the project shall be implemented. The budget proposed under EMP Rs.394.1 Lakhs in the previous financial year for environment management and control and same shall be kept in a separate account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported by photographs (before & after with geo-location date & time) and other document as applicable to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during the previous year.	ANTIC impact and maphase propose There is a control of the control	IPATED IMPACT AN analysis, it is found the agnitude. Minor impact due to the proposed due to the project. However, and the action of the actio	nat the impacts anticipated is anticipated during the project. There will be not wever, small amounts of eneration from the project led Risk Analysis was ons were made, which will mould be provided in the wighould be assessed, torage tanks/containers or earthing circuits should done for earth pit and record all in storage up to 80 %. The age area area agreed as a spropriate.	JRES: Through detailed and are of low significance construction & operation are emissions from the CO2 will be generated. It will be a ZLD project.  It will be a ZLD project.  It will be a rollowing be ensured ork floor environment.  Of chemicals should be the maintained. Periodic
(21)	The total water requirement shall not exceed 3.33 KLD. Out of which, 1.13 KLD freshwater shall be met by existing freshwater sources. The rest of the requirements shall be met by reusing 2.2 MTPD steam condensate within the project. 2.2 MTPD steam shall be used as a utility. Total water requirement after expansion shall be 44056.41 KLD. The PP shall ensure that water supply should not be above the permissible limit and fresh water shall be withdrawn only after obtaining requisite permission from Concerned Authority. The PP should submit the details of utilization to the Integrated Regional Office (IRO), MoEF&CC before 1st July of every year for the activities carried out during the previous year.	GSFC operativadod: J.N.Ve 28/02/2 allowed	ion of the plants. GSFC ara Irrigation Divisior rsiv/PB-1/GSFC-Vadoo 2024. As per agreem d on annual basis witho	C got permission for 29.00 n (VID) for the year 2 lara /Annual Qty. Reser./ ent of GoG, +/-25% be	Year 2024-25/433 dated yond permissible limit is r drawl for the period April

(22)	No banned chemicals shall be manufactured by the PP. No banned raw materials shall be used in the unit. The PP shall adhere to the notifications/guidelines of the Government in this regard.					
	The PP shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	Minor amount of CC			ted from LBCN project. ved through RE and	
(23)			Basis	Total power generation	Carbon reduction	
(20)		Wind power (2023-24)	1MT CO2 = 1396.648 KWh	171541119.8 kWh	122823.45 MT of CO2 reduction	
		Solar Power (2023-24)	1MT CO2 = 1396.648 KWh	18702946.91 KWh	13391.31 MT of CO2 reduction.	
		Tree Plantation	40 trees reduce 1 T of CO2	Total 202633 nos. Of trees in GSFC.	5065.82 MT of CO2 reduction.	
(24)	The project proponent shall comply with the environment norms for Chemical Fertlizer Industry as notified by the Ministry of Environment, Forest and Climate Change, vide GSR 1607 (E), dated 29.12.2017 under the provisions of the Environment (Protection) Rules, 1986.					
(25)	All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The PP shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents	prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996.  To Onsite emergency plan is in place for the existing premise and mock drills carried				
	(Emergency Planning, Preparedness and Response) Rules, 1996.	Ü				
(26)	The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97 % with effective chillers/modern technology. Regular monitoring of VOCs	LBCN project.		, ,	used for the proposed	
	shall be carried out.	VOC.			remises for controlling	
(27)	The PP shall explore possibilities for recycling and reusing of treated water in the unit to reduce the fresh water demand and waste disposal.					
(28)	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data	emissions from the	the proposed LB0 project and hence no	•	will be no gaseous I.	
	to be transmitted to the CPCB and SPCB servers. For online continuous monitoring of effluent, the unit shall	Apart from above,	online monitoring s	system has been i	nstalled for effluent &	

	install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.		g facilities of pr	emise and conne	cted to CPCB &		
(29)	The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.	The existing storage of toxic/ha	<b>Complied</b> , only 2 m3 nitric acid will be stored in the day tank at LBCN plant.  The existing storage of toxic/hazardous raw materials for other plants in GSFC complex is available for the period of April '24 to Sept '24.				
(30)	The occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers.		rst aid boxes (following: tor ventilator atory  Pad lint, eye wash I c monthly) of ated within prer employees whats/investigation	employees is nises. Records a no underwent pess carried out	ower  carried out by re maintained at riodical and pre during medical		
		Month	Periodical I	Medical Examinat	ion numbers		
			Employee s	Contract worker	Total		
		April-24	180	14	194		
		May-24	229	22	251		
		June-24	222	121	343		
		July-24	203	43	246		
		Aug-24	254	70	324		
		Sept24	236	201	437		
		Total	1324	471	1795		
		Pre-Medical Examination details:	<u>;</u>				
		April-24 May-24		0			
		IVIay-24		U			

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				GSFC Limited,	Vadodara
				June-24 5	
				July-24 0	
				Aug-24 4	
				Sept24 13	
				Total 22	
	Training shall be imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly	Con depa Dep	ction nplied. Regul artment. Hea t. ety & Health	ployees are provided necessary safety kits/malar training on safety and health aspects are orgodith awareness information is regularly circular training imparted to workers/employees during partment is as under;	ganized by s ated by Me
			Month	Training Topic	Nos. of members present
			April-24	Safety Site Talk	314
				Induction class room safety training	04
				Pre shutdown Safety training	20
				Fire Fighting training	55
1)				Safety Site Talk	151
.,				Transport Safety	54
			May-24	PPA & BA set demo.	37
				Class room safety training	67
				Safety Site Talk	529
			June – 24	•	62
				Transport Safety	28
			1.1.04	Safety Site Talk	219
			July – 24	Tool box talk	08
				Safety Site Talk	214
				Work permit system	89
				Haz. Property of Chemicals, Electrical and Mechanical Safety	89
			Aug-24	Safety during working in Confined Space, Emergency Preparedness	89
				Safety during work at height, and Types of PPEs	89
	1		1		

Fire Safety & Practical

				coi o Emintou,	r a a c a a i a	
				Safety Site Talk	107	
				Transport Safety	9	
				Work permit system	39	
		Cont	24	Haz. Property of Chemicals, Electrical and Mechanical Safety	39	
		Sept.	-24	Safety during working in Confined Space, Emergency Preparedness	39	
				Safety during work at height, and Types of PPEs	39	
				Fire Safety & Practical	39	
(32)	The unit shall make the arrangement for the protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.	in place an	d be	ghting system as per norms for present opera ing maintained. Fire Extinguisher and Fire site of LBCN.		
(33)	The solvent management shall be carried out as follows:  (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.  (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.  (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.	The said n complex.	neasu	vent is used for the proposed LBCN Project. res for solvent management are followed		
(34)	The storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit.	Corporate b Mechanical to Sept. '24	uilding Store and re	C has installed Roof top rainwater harve g, A block, ADC, R&D, Central Lab, SDO, O building. @ 12743 m3 of rainwater is collected used for fire water make up.	ifficer Punch ed during Ap	ing &
	No recharge shall be permitted within the premises.  Process effluent/ any wastewater shall not be allowed to mix with storm water.	open chanr common effl	nel ar uent d	cooling tower & boiler blow down are collectend then discharged along with treated effichannel of M/s. VECL for ultimate discharge to	luent stream estuary of N	ns to
(35)	The PP shall undertake waste minimization measures as below  (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapor recovery system. (f) Use of high pressure-hoses for equipment cleaning to reduce wastewater generation.	Complied.	All the	measures are being followed for the existing of	complex.	

В	STANDARD CONDITIONS				Compliand Period Apr '2		24)			
(1.1)	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	proposal	I. All the d					erations in	the project	
(1.2)	The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts.				s and guidelin		·		Cu.	
(1.3)	preferably LED based, or advanced having preference in energy conservation and environment betterment.	replaced by	/ latest LE	D type of	400 various t fittings for sav	ing of pow	er.		-	
(1.4)	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	(Max., Min norms.	along with	h compar	is carried out ison with star eriod April'24	ndards) are	e given			
	the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day		Noise Level, Limit-75 dB(A) Noise Level, Limit-70							
	time) and 70 dBA (night time).	Loc	ation	Δνα	<b>Daytime</b> Min	Max		(A) Night		
		Nr Marke	eting Yard	Avg 61	48	74	Avg 56	Min 42	Max 70	
			Building	58	46	70	53	40	66	
		B/H	SA-IV	58	44	70	54	42	66	
		_	jar Tank ırm	51	40	62	48	39	58	
(1.5)	The company shall undertake all relevant measures for improving the socioeconomic conditions of the surrounding area. The activities shall be undertaken by	CSR Exp	•	ncurred f	ty. Details are from April '24	•	4:			
	involving local villages and administration. The company shall undertake eco developmental measures	Sr. No		Deta	ils		Amoun			
	including community welfare measures in the project	1	Educatio				27,87,800			
	area for the overall improvement of the environment.	2		Water Fa			12,62,			
	·	3	Other Lo	cal activit	ies		82,26,	205		

				GSFC Limited,	vadodara		
			Total	1,22,76,09	1		
(1.6)	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of				Lakhs as a tota		
	Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein.	The fund earmarked to ir only.	nplement the conditions	s will be utilized for	intended purpose		
	pollution control measures shall not be diverted for any	Cumulative Expenditure i	•	rs are given below.			
	other purpose.	Past three year investm	ent in pollution control:		1		
		Description	Expenses in l	lakhs			
			Till 2021-22	Till 2022-23	Till 2023-24		
		Investment in Pollution control	4198.58	4198.58	4198.58		
		Total Investment	521036.12	528422.48	539630.49		
		Budget is prepared ever Control dept.		es to be carried or	ut by Environmen		
(1.7)	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.  The project proponent shall also upload/submit six monthly reports on Parivesh Portal on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective Integrated Regional Office of MoEF&CC, the	Complied, No suggestion  Complied, Six monthly		ects is being done re	egularly.		
	respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.						
(1.9)	ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently,	EC/IMS/ES/10/2023-24		year 2023-24			

(1.10)	project has been accorded environmental clearance by	Complied, GSFC has published advertisement of Env. Clearance in local newspapers i.e. Indian Express & Sandesh newspapers on 09/01/2024.  The copy of same is forwarded by letter no- EC/ LBCN project/Adv./2024 on dated 11/01/2024 to IRO- MoEFCC Gandhinagar.  GUJARAT STATE FERTILIZERS & CHEMICALS LIMITED Fertilizernagar-391 750. Dist. Vadodara, Gujarat, India CIN: L99999GJ1962PLC001121 - www.gsfclimited.com  PUBLIC NOTICE  All are hereby informed that the project "Manufacturing of Fortified Liquid Boronated Calcium Nitrate (LBCN) Plant with production capacity of 1100 KLPA (3.333 KLPD) in existing GSFC Complex at Fertilizernagar, Vadodara, Gujarat by M/s Gujarat State Fertilizers & Chemicals Limited." has been accorded environmental clearance vide F.No J-11011/901/2007-IA-II(I) dated 28" December 2023 by the Ministry and copies of the clearance letter are available with Gujarat Pollution Control Board (GPCB) and may also be seen at the Website of Ministry and at https://parivesh.nic.in/.  JYZIC RES SEGIEBTE DOS EMSER GIAES  SEGIEBTE DOS EMBERCH GIAES  SEGIEBTE DOS
		ફર્ટીલાઇગ્રસ્તાંગર - ૩૯૧૭૫૦, લડોદરા, ગુજરાત, ભારત CIN: L99999GJ1962PLC001121 - www.gsfcllmited.com જાહેર સૂર્યના
(1.11)		Complied Commissioning date: 12/09/2023 Final Approval - CTO obtained from GPCB dated 21/11/2024 Date of starting Plant: 21/11/2024.
(1.12)	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Noted.

	ADDITIONAL EC CONDITIONS				nce Status '24 to Sep '24)		
(1)	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, and risk mitigation measures relating to the project shall be implemented.	Complied as pe	r specifi	c condition 20			
(2)	Adequate air pollution control system and adequate stack height shall be installed in all the existing and proposed unit. Online Stack Monitoring System shall be installed in the plant for online air parameters measurement and connected to CPCB/GPCB.	·				the LBCN project.	
(3)	Particulate and Flouride emissions shall be monitored regularly in the existing plant at GSFC and due to the adequate control systems in place of total fluoride remains well below the specified norms of 25 mg/Nm3.	monitored regula	arly at G	SFC and due to rell below the spec	the adequate cor cified norm of 25		
	Terriains wen below the specimed forms of 25 mg/Nmc.			DAP FUMES SCR.	DAP FUMES SCR.	PA PLANT	
		Compliance		Train A	Train B	FUMES SCR.	
		period		F(mg/Nm3)	F(mg/Nm3)	F(mg/Nm3)	
		April '24 to	Avg.	14.2	8.7	19.8	
		Sept '24	Min	11.3	7.9	17.0	
		GPCB Nor	Max	17.0 25	9.6 25	22.7 25	
(4)	LDAR System with verious gos detectors for			_		===	0 0r0
(4)	LDAR System with various gas detectors for Ammonia, Hydrocarbon and Chlorine, Sulphur Dioxide shall be installed in the plants. In case of leakage, same actuates and alarm appears in the control room. Such leakages are isolated and repaired. The fugitive emissions of the carcinogenic compounds (Benzene) shall be controlled by closed vapour collection and recovery system and monitored at regular intervals.	Complied. Various gas detectors for Ammonia, Hydrocarbon and Chlorine are installed in existing plants, In case of leakage, same actuates and alarm appears in control room. Such leakages are isolated and repaired. Details of LDAR in the logbook is maintained.  Complied. Transportation of raw materials/products and other hazardous chemicals through GPS enabled vehicles are in practice in GSFC.			ears in in the		
(5)	Transportation of Ammonia and other hazardous chemicals shall be performed through GPS enabled vehicles and all the safety measures related to hazardous chemicals shall be implemented.						
(6)	Total water requirement after expansion shall not exceed 44056.41 KLD. For the LBCN project, the total water requirement will be 3.33 KLD. Out of which, 1.13 KLD freshwater will be supplied by existing freshwater sources.	Complied for complied.	GSFC (	complex. For L	BCN Project, wa	ater requirement w	rill be

in the EIA/EMP report to achieve compliance to the mention in the Ministry's OM dated 31.10.2019 & 24.10.2019 is available.	ΡΑ
conditions stipulated in the OM dated 31.10.2019-	
"Consideration of proposals for grant of Environmental	
clearance for new and expansion activities listed in	
'Red' and 'Orange' Categories located in Critically	
Polluted Areas and Severely Polluted areas"	

# Monitoring the Implementation of Environmental Safeguards Ministry of Environment & Forests & Climate Change Regional Office (WZ) Gandhinagar Monitoring Report

### **DATA SHEET**

No.	Conditions	Compliance (April '24 to Sept '24)
1.	Project type: River-valley / Mining/	Industrial
	Industry/Thermal/Nuclear/Others(specify)	
2.	Name of the Project	Proposed addition for Manufacturing of Fortified Liquid Boronated Calcium Nitrate
		(LBCN) Plant with production capacity of 1100 KLPA (3.333 KLPD) in existing
		premises located at P.O. Fertilizernagar, Taluka & District- Vadodara, Gujarat
3.	Clearance letter(s) OM No. and date	J-11011/901/2007-IA-II(I) dated 28.12.2023
4.	Location	Gujarat State Fertilizers & Chemicals Ltd.
	a) District (s)	P.O. Fertilizernagar - 391750,
	b) State (s)	Vadodara
		Gujarat
	c) Location/Latitude/Longitude	Latitude: 22°22'33.73"N
		Longitude 73° 09'22.41"E
5.	Address for Correspondence	Mr. K S Badlani, Sr. Vice President (I&MB, U&EC, PLM & FU) & MR
	a) Address of the Concerned Project Chief Engineer (with	P.O.: Fertilizernagar - 391750,
	Pin Code & Mob. No/Telephone/ Telex/ E-mail)	Tal. & District: Vadodara, State: Gujarat Mo. no.:9909965842;
		email: ksbadlani@gsfcltd.com
	b) Address of concerned Project Engineer (with Pin code &	Dr. Pujan Vaishnav, VP (R & D )
	Mob No / Telephone/ Telex/ E-mail)	P.O.: Fertilizernagar - 391750,
		Tal. & District: Vadodara, State: Gujarat
		Email : pujan.vaishnav@gsfcltd.com
6.	Salient Features	
	a) of the Project	Under Atma Nirbhar Bharat Programme, taking into consideration the increasing
		demand of Calcium Nitrate soon, the industry has proposed for "Manufacturing
		of Fortified/Liquid Boronated Calcium Nitrate (LBCN) Plant in existing GSFC
		Complex".

		GSFC Lillilled, Vadodara
	b) of the Environmental Management Plans	Under proposed project, there will be no wastewater generation as water generated will get consumed in product. 0.6 KLD domestic sewage will be treated as per existing practices. No additional stack will be installed and no hazardous waste will be generated.
7.	Production details during compliance period and (or) during the previous financial year.	Provisional CTO is received on 05.10.2024.
8.	Breakup of the Project Area	
	a) Submergence area : Forest & Non-Forest	GSFC is located in notified area.
	b) Others	Project is located in existing premises.
9.	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 :	None (Project is within existing Factory Complex area)
	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)	
	Financial Details :	
10	a) Project Cost as originally revised estimates and the year of price reference.	Project cost is Rs 50 Lac Machineries are commissioned in accordance with the plan at the existing machinery shed.
	b) Allocation made for environmental management plans with item wise and year wise break-up.	<del></del>
	c) Benefit cost ratio/Internal rate of Return and the year of assessment (if applicable)	
	d) Whether (c) includes the cost of environmental management as shown in the above	
	e) Actual expenditure incurred on the Project so far.	<del></del>
	f) Actual expenditure incurred on the environmental management plans so far.	-
11	Forest Land Requirement	Not applicable as project area is located within Factory Complex area.
	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.	
	d) Comments on the viability & sustainability Of	
	compensatory afforestation program In	
	the light of actual field experience so far	
12	The Status of Clear Felling in non-forest Area	
	(such as submergence area or	Not applicable as project area is located within Factory Complex area.
	Reservoir, approach roads), if any with	
	Quantitative information required.	
13	Status of Construction (actual and/orplanned)	CTO is received.
	a) Date of commencement (Actual and/or planned)	
	b) Date of completion (Actual and/or planned)	
	b) Date of completion (Actual and/of planned)	
14	Reason for the delay if the project is yet to start	As per schedule.
14	Reason for the delay if the project is yet to start	As per scriedule.
15	Dates of Site Visits	
'	a) The dates on which the project was monitored by the	Dy. Director -MoEF, Bhopal visited GSFC complex on 23.06.2021.
	, ,	by. Director -Iviolar, Briopar visited Gor G complex on 25.00.2021.
	Regional Office on previous occasions, if any	
		IRO-Gandhinagar visited on 12.05.23.
	b) Date of site visits for this monitoring report.	The Garlanniagar violed on 12.00120.
16	Details of correspondence with project authorities for	None
	obtaining action plans/information on status of compliance	
	to safeguards other than the routine letters for logistic	
	support for site visit.	
	support for site visit.	
	(The first monitoring report may contain the details of all the	
	(The first monitoring report may contain the details of all the	
	letters issued so far but the later reports may cover only the	
	letters issued subsequently)	

Current Status. : Consent to Establish (CTE) is received vide outward no. 21259 dated 26.12.2024. Consent to Operate (CTO) is received on 21.11.2024.