10602/MOEF/1392 Dt. 20.11.2025



The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forests & Climate Change, 4<sup>th</sup> Floor, E & F Wing, Kendriya Sadan, Koramangala, BENGALURU – 560 034

Dear Sir,

Sub: Expansion cum Modernization of Fertilizer Plant (Ammonia from 247500 to 328500 TPA, Urea from 429000 to 569400 TPA, DAP/NPK from 401500 to 1401500 TPA and Sulphonated Naphthalene Formaldehyde/Poly Carboxylate Ether from 85000 to 103000 TPA) by M/s Mangalore Chemicals and Fertilizers Ltd. – EC No. J-11011/159/2016-IA II (I) dated 14.08.2018 - Half yearly report for the 1st half of 2025-26.

We are enclosing herewith the six-monthly compliance reports for the period ending on 30<sup>th</sup> September, 2025.

Thanking you,

Yours faithfully,

S. GIRISH

### CHIEF MANUFACTURING OFFICER

For Paradeep Phosphates Limited – Mangaluru Unit (Formerly Mangalore Chemicals & Fertilizers Limited)

Encl: a/a

CC: 1. The Member Secretary
Karnataka State Pollution Control Board
#49, ParisaraBhavan, 4<sup>th</sup>& 5<sup>th</sup> Floor
Church Street
BENGALURU – 560 001

The Member Secretary
 Central Pollution Control Board
 "ParveshBhawan", C.B.D. Cum-office Complex
 East Arjun Nagar, Shahdara
 DELHI - 110 032

The Environmental Officer
 Karnataka State Pollution Control Board
 Plot No.10B, Baikampady Industrial Area
 MANGALURU - 575 011.

### PARADEEP PHOSPHATES LIMITED

www.paradeepphosphates.com

# INDUSTRY DETAILS

1 The contact details with emails, telephone	S. GIRISH,
numbers, mobile numbers, fax numbers	
etc. of the responsible person of the	PARADEED BHOSDHATES LIMITED MANCALLIE
project who is competent speak on behal of the company and on environmenta	UNIT
aspects	(Formerly MANGALORE CHEMICALS
	FERTILIZERS LTD)
	PANAMBUR, MANGALURU -575 010.
	Phone No.: 0824 – 2220632
	Fax No.: 0824 – 2407938
	s.girish@adventz.com
2 Updated address of the project with all	PARADEEP PHOSPHATES LIMITED - MANGALUR
contact information, emails, details of	UNIT,
Environmental management cell and GPS	MANGALA BHAVAN, PANAMBUR, MANGALORE
locations of the specified area STD Code, Phone	575 010 0824 – 2220600
Fax No.	0824 - 2220600
Details of Environmental Cell:	We have a well-established Environment cell an
Betails of Environmental Cell.	
	well-equipped in-house laboratory with sophisticated modern Analytical Instruments fo
	carrying out various environmental monitoring
	parameters in water, wastewater and air
	emissions. The cell is headed by Chief Manager
	Quality Control and Environment and is
	managed by qualified and trained officers.
3Email address of the company, email	Sadanand I. M , CGM-Production
address of any two responsible persons	2. K Roopesh, Chief Manager - Quality Control and
including the project head and website	Environment
	1. 0824-2220722
Phone numbers of responsible persons	
E-mail address of responsible persons	1. <u>sadanand.im@adventz.com</u>
	2. <u>k.roopesh@adventz.com</u>
Website of the company	www.mangalorechemicals.com
4 Land Balance Details:	
(a) Total land area	192 acres
(b) Built up area	77 acres
(c) Vacant Land	51 acres
(d) Greenbelt area	64 acres
5 Groundwater Usage	Groundwater is not used for any purpose
6 Green belt area	Developed and maintained about 64 acres of
	Greenbelt area with various varieties of trees.
	About 2500 saplings were planted during 2025-
	26 period.
7 Solid waste management	Annexure A
8 Rain Water harvesting	Implemented the schemes for harvesting roof
	water at our township and recharge bore wells.
	Total roof area covered is about 3500 m <sup>2</sup> and
	estimated water harvested is 13,300 m³/year. In
	addition to the above, two new roof water
	harvesting schemes are being implemented in
	the factory premises covering about 2431 Sq.
	mts., targeting 8935 m <sup>3</sup> of rain water harvesting

	per year.
9 Solar Power generation	We have installed solar lightings at various locations inside the factory premises as well as in our township. Details are as below:  1. At MCF Plant premises.  a. Main plant – 251 kWp  b. Mangala Garden in front of Safety section-1no-10Watts (LED)  c. Mangala Garden Machinery group section Back side -1No-11Watts (CFL)  d. Mangala Garden instrument back side -1No-11Watts (CFL)  2. At MCF Township premises  a. Children park-1No-10Watts (LED)  b. Main gate side-1no-10Watts (LED)  c. Inside Sewage Treatment plant-1No-10Watts (LED)  d. Near MCF Staff club-1No-10Watts (LED)  3. At MCF Guest house premises  a. Mangala/Ambica guest house walkway -2No-10x2=20Watts (LED)
10 Details of action taken under CREP	Annexure A
11 Current status of the plant with production details	We received Environmental Clearance in the month of August 2018. Expansion cum Modernization of the Ammonia Plant is completed and production started in the month of September 2022.

Compliance to the Environmental Clearance to the project for Expansion cum Modernization of Fertilizer plant (Ammonia from 247500 to 328500 TPA, Urea from 429000 to 569400 TPA, DAP/NPK from 401500 to 1401500 TPA and Sulphonated Naphthalene Formaldehyde/ Poly Carboxylate Ether from 85000 to 103000 TPA) by Mangalore Chemicals and Fertilizers Limited at Panambur, Mangalore, Dakshina Kannada District, Karnataka. F. No. J-11011/159/2016-IA-II (I) dated 14<sup>th</sup> August 2018

SI. No.	Terms and Conditions	Compliance
i.	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	We have obtained Consent to Establish for the project to Karnataka State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
ii.	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises	We have noted the condition and is being complied.
iii.	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms of 50 mg/Nm³ for dispersed through stack of adequate height as per CPCB/SPCB guidelines.	We have noted the condition.
iv.	The present water requirement of 8928 cum/day is being supplied by Mangalore City Corporation and no additional fresh water shall be required for the proposed expansion	We have noted the condition and is being complied.
V.	Process effluent/any waste water 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.	All the process plant effluents are separately collected and treated in wastewater recovery unit and reused in Cooling Tower as makeup. No effluent streams are joining the storm water drains. Storm water drains are meant only for rainwater.
vi.	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and solvent transfer through pumps.	We have noted the condition and is being complied.
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.	We have noted the condition and is being complied.
viii.	<ul> <li>The project proponent shall undertake waste minimization measures such as:</li> <li>a) Metering and control of quantities of active ingredients to minimize waste.</li> <li>b) Use of high pressure hoses for equipment clearing to reduce wastewater generation.</li> </ul>	We have noted the condition and is being complied.
ix.	All the commitment made regarding issues raised during the Public Hearing/consultation meeting held on 11 <sup>th</sup> January, 2018 shall be satisfactorily implemented	We have noted the condition and is being complied.

xi.	of the total project area, mainly along the plant periphery, in downward wind direction and along road sides etc.  At least 0.25% of the total project cost shall be	63,000 trees like Teak, Mangium, Eucalyptus, Subabul, Acacia etc., developed in our green belt area. The area covered by the green belt is about 64 acres.  We have completed Ammonia Plant
All	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.	Energy Improvement Project as a part of partial Implementation of Expansion cum Modernization project. We have taken up and completed the following projects in Dakshina Kannada district of Mangaluru during the year 2022-23 spending 0.25% of our project cost towards Corporate Environment Responsibility fund.  Contributed towards Centenary building of Red Cross Society, Dakshina Kannada district.  Supplied equipment to Naturopathy Section of Multi-Speciality AYUSH Hospital, Mangaluru.  Provided one primary waste collection vehicle to Material Recovery Facility (MRF) project of Dakshina Kannada. Zilla Panchayath.  Constructed one Anganawadi Kendra at Pachchanadi, near Bondel, Mangaluru.  Constructed one public toilet for Smart bus stand at Surathkal, Mangaluru., being built under Smart City Project
xii.	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.	We have noted the condition and is complied.
xiii.	The unit shall make the arrangement for protection of possible fire hazardous during manufacturing process in material handling. Firefighting system shall be as per the norms.	We have noted the condition and is complied.
xiv.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	We have noted the condition and is being complied.
XV.	Transportation of raw materials/products should be carefully performed using GPS enabled vehicles.	We have noted the condition and is being complied.

xvi.	Continuous online (24 x 7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent the unit shall install web camera with night vision capability and flow meters in the channel/ drain carrying effluent within the premises.	being complied.
	General Conditions	
i.	The project authorities shall adhere to the stipulations made by the State Pollution Control Board, Central Pollution Control Board, State Government and any other statutory authority.	We have noted the condition and is being complied
ii.	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.	We have noted the condition.
iii.	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 station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	We have noted the condition and is complied.
iv.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 <sup>th</sup> November, 2009 shall be followed.	We have noted the condition and is being complied.
V.	The overall noise levels in and around the plant area shall be kept well within the standard 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 Environment (Protection) Act, 1986 Rules, 1989 viz. 75dBA (day time) and 70 dBA (night time).	The overall noise levels in and around the plant area is kept well within the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time). Noise Level around the boundary of the factory premises are measured regularly. Report is attached as Annexure VI.
vi.	The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	We have completed the scheme for harvesting roof water at our township. The roof water is being used to recharge the bore wells. In addition to the above, two new roof water harvesting schemes are being implemented in the factory premises covering about 2431 Sq. mts., targeting 8935 m3 of rain water harvesting per year. These schemes has been taken up for accomplishing our concern and social accountability for ground water conservation.

Vii.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Preemployment 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.	Training program with respect to safety and health aspects of chemical handling are regularly imparted to all employees. Preemployment and routine periodical medical examinations for all employees are being carried out and records are being maintained.
viii.	The company shall also 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.	We have noted the condition and is being complied.
ix.	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	We have organized various CSR activities as per the CSR guidelines.  Under community development & Rural development program, donated Chairs to  Bharamashree Narayaguru samaja Seva Sanga(R.) Katipalla.  Kodikal Ambedkar Bavana.  Babu Jagjeevan Ram Seva Sanga Kodikal.  Shree Narayanaguru Dhayana Mandira Rayee  Skill Development Program (Advance Aari Embroidery, Basic Aari embroidery & Artificial Jewellery making) at VIRAT-Vidyadayini High School, Surathkal  Under health care project,  Provided Orthopedic equipment to Govt Hospital Karkala.  Donation of Equipment to Government Ladygoschen Hospital, Mangalore: Patient Monitor with ECG, NBP cuffs, Temperature Probe etc., to NICU  Donation of Medical equipments to Govt. T.B. and Chest Diseases Hospital,
X.	The company shall undertake eco-developmental	Mudushedde, Mangalore
	measures including community welfare measures in the project area for the overall improvement of the environment.	

		Usage and Nature/Forest Conservation by Rangachala Team, Directed by Dinesh Attawar  • We have developed a Miyawaki forest in Mangaluru in collaboration with Vana Charitable trust.  • Under environmental sustainability program, we have taken up lake development project in Dakshina Kannada district.
xi.	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	in-house laboratory with
	Management and Monitoring functions.	Instruments for carrying out various environmental monitoring
		parameters in water, wastewater and air emissions. The cell is headed by Chief Manager - Quality Control and
		Environment and is managed by qualified and trained Manager- Environment and officers. Regular
		meetings are conducted by the Environment cell. Last meeting was conducted on 14.08.2025.
xii.	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.	The funds earmarked towards capital cost and recurring cost respectively to implement the conditions stipulated by the MoEF as well as the State Government / Karnataka State Pollution Control Board will not be diverted for any other purpose.  Fund allocated year wise is given below.
		1) 2018-19 - Rs.103 Lakhs 2) 2019-20 – Rs. 200 Lakhs 3) 2020-21 – Rs.79 Lakhs
		4) 2021-22 - Rs. 133 Lakhs 5) 2022-23 - Rs. 175 Lakhs 6) 2023-24 - Rs. 130 Lakhs 7) 2024-25 - Rs. 140 Lakhs 8) 2025-26 - Rs. 135 Lakhs
xiii.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Muncipal Corporation, Urban local body and local NGO, if any from whom suggestions/representations, if any were received while processing the proposal.	A copy of the clearance letter is sent to Zilla Panchayat and Mangalore City Corporation and also a copy is made available to public by displaying at our company's website.
xiv.	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	Six monthly compliance status reports are submitted to monitoring agencies regularly and are posted in the website of the Company.
		Page 5 of 6

	SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	
xv.	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	The Environment Statement for the year 2024-25 is submitted to KSPCB on 05.08.2025. It is posted on the website of the Company. It is also being sent to regional office of MOEF & CC at Bengaluru by Email.
xvi.	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 <a href="http://envfor.nic.in/">http://envfor.nic.in/</a> . 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.	As per the condition we have advertised in English daily "Deccan Herald" and in Kannada daily "Prajavani" on 31.08.2018 about the environmental clearance accorded by the Ministry of Environment & Forests, Government of India for "Expansion cum Modernization of Fertilizer Plant (Ammonia from 2,47,500 to 3,28,500 TPA, Urea from 4,29,000 to 5,69,400 TPA, DAP/ NPK from 4,01,500 to 14,01,500 TPA and Sulphonated Naphthalene Formaldehyde/ Poly carboxylate Ether from 85,000 to 1,03,000 TPA)". A copy of the same has been forwarded to the Ministry's Regional Office, Bangalore vide letter No. 10602/MOEF/608 dated 07.09.2018.
xvii.	The project authorities shall inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	We have noted the condition. The date of financial closure for the expansion of Ammonia plant project (August 2021) has been informed to the Regional Office.

# CHARTER ON CORPORATE RESPONSIBILITY FOR ENVIRONMENTAL PROTECTION (CREP)

### Fertilizer Industry

### **Wastewater Management**

SI.No.	Stipulation	Compliance
1	Efforts will be made for conservation of water, particularly with a target to have consumption less than 8, 12 and 15 m3/tonne of urea produced for plant based on gas, naphtha and fuel oil, respectively. In case of plants using Naptha and Gas both as feed stocks, water consumption target of less than 10 m3/tonne will be achieved. An action plan for this will be submitted by June 2003 and targets will be achieved by March 2004.	Fertilizers (MCF) the average water consumption for the year 2018-19, 2019-20, 2020-21, 2021-22, 2022-23, 2023-24 and 2024-25 are 5.75, 5.49, 6.20, 6.28, 6.99, 5.33, 5.40 m³/MT of urea produced respectively. Thus, as our plants are based on Natural gas the water consumption is well within the target of
2	Use of arsenic for CO2 absorption in ammonia plants and chromate-based chemicals for cooling systems, which is still continuing in some industries, will be phased out and replaced with non-arsenic and non-chromate systems by December 2003. In this regard, action plan will be submitted by June 2003.	We are using Benfield solution for CO <sub>2</sub> absorption in Ammonia plant ever since commissioning of our plants. Thus, there is no source of arsenic. Hence there is no Arsenic waste generation or pollution due to arsenic from our industry.  We have changed over chromate to non-chromate cooling water treatment programme in 1991. Thus, there is no chromate waste generation or pollution due to chromate from MCF
3	Adequate treatment for removal of oil, chromium (till non-chromate based cooling system is in place) and fluoride will be provided to meet the prescribed standards at the source (end of respective process unit) itself. Action plan will be firmed up by June 2003 for compliance by March 2004.	We have procured mechanical oil skimmers for removing oil from oil separators in our plants. The oil content in final treated effluent is less than 10 ppm.  We have changed over our Cooling Water treatment system from chromate to non chromate since 1991. Our DAP Plant is zero liquid effluent plant. We do not have Phosphoric Acid plant or any other process generating effluents bearing fluoride. Hence, chromium and fluoride are not present in our liquid effluent.

SI.No.	Stipulation	Compliance
4	Proper and complete nitrification and de- nitrification will be ensured, wherever such process is used for effluent treatment, by September 2003.	MCF is employing thermal urea hydrolysis and steam stripping system for treating ammonia and urea bearing effluent streams from our Ammonia and Urea plants. We are not following any biological nitrification method for effluent treatment. Hence this clause is not applicable to MCF.
5	Ground water monitoring around the storage facilities and beyond the factory premises will be carried out at regular intervals particularly for pH, fluoride. CPCB will finalize the guidelines for groundwater monitoring by December 2003.	We are monitoring ground water by collecting and analyzing the well water outside our factory boundary. We are also analyzing the water from the test borewells provided near hermit storage area.
6	No effluent arising from process plants and associated facilities will be discharged to the storm water drain. The quality of storm water will be regularly monitored by all the industries.	entire treated wastewater and the target of zero wastewater discharge during 2010. This is achieved by up gradation of our trade effluent and sewage treatment system by installation of Lamella clarifier, Ultrafiltration & Reverse Osmosis technology (RO) for treatment of trade effluent and Membrane Bio-reactor (MBR) technology for treatment of sewage effluent. The treated wastewater and sewage effluent streams are completely reused and there is no discharge of any effluent.
	:E	The effluent streams are not discharged to storm water drain. The quality of storm water is being monitored regularly.
7	The industries, where waste water/effluent flows through the storm water drains even during the dry season will install continuous systems for monitoring the storm water quality for pH, ammonia and fluoride. If required, storm water will be routed through effluent treatment plant before discharging. An action plan will be submitted by June 2003 and necessary action will be taken by June 2004.	streams are not discharged to storm water drain. Hence this is not applicable to MCF.

## **Air Pollution Management**

SI.No.	Stipulation	Compliance
1	All the upcoming urea plants will have urea prilling towers based on natural draft so as to minimize urea dust emissions	Our Urea plant was commissioned in 1976 and hence not applicable to us.
2	The existing urea plants, particularly, the plants having forced draft prilling towers, will install appropriate systems (e.g. scrubber, etc.) for achieving existing norms of urea dust emissions. In this regard, industries will submit action plan by June 2003 and completion of necessary actions by June 2004.	In case of MCF, the SPM emission level from urea prilling tower is in the range of 50-90 mg/Nm³ and is well within the stipulated limit of 150 mg/Nm³. Hence dust scrubbing system is not necessary to our urea plant.
3	The sulphuric acid plants having SCSA system will switch over to DCDA system by March 2004 to meet the emission standard for SO2 as 2 kg/tonne of H₂SO₄ produced. An action plan for this will be submitted by June 2003.	Our Sulphuric acid Plant was commissioned during 2006 and is DCDA technology.
4	Sulphuric acid plants having DCDA system will improve the conversion and absorption efficiencies of the system as well as scrubbers to achieve SO2 emissions of 2 kg/tonne of acid produced in case of plants having capacity above 300 tpd and 2.5 kg/tonne in case of plants having capacity upto 300 tpd. An action plan will be submitted by June 2003 and emission levels will be complied with by September 2004.	
5	Stack height for sulphuric acid plants will be provided as per the guidelines and on the basis of normal plant operations (and not when the scrubbers are in use) by June 2003. The scrubbed gases are to be letout at the same height of the stack.	provided as per the KSPCB guidelines and the scrubbed gases are letout at the
6	An action plan for providing proper dust control system at rock phosphate grinding unit in Phos Acid/SSP Plants.	This is not applicable to MCF as we are not having Phosphoric Acid /Single Super Phosphate plants.

SI.No.	Stipulation	Compliance
7	Particulate as well as gaseous fluoride will be monitored and adequate control systems will be installed by June 2004 to achieve the norms on total fluoride emissions (25mg/Nm³)	the limits in our DAP plant. SPM level is in the range of 60 - 80 mg/Nm³ and
8	Continuous SO <sub>2</sub> emission monitoring systems will be installed in sulphuric acid plants (having capacity 200 tpd and above) by March 2004. Action plan for this will be submitted by June 2003.	systems has been installed in our Sulphuric Acid plant and the system is
9	Regular monitoring of ambient air quality with regard to SO <sub>2</sub> , NO <sub>x</sub> , PM, SO <sub>3</sub> , fluoride and acid mist will be carried out.	Monitoring ambient air quality with regard to SO <sub>2</sub> , NO <sub>x</sub> , SPM, fluoride and acid mist are being carried out.

### Solid Waste Management

SI.No.	Stipulation	Compliance			
1	Gypsum will be effectively managed by providing proper lining, dykes with approach roads and monitoring of groundwater quality around storage facilities. Accumulated gypsum will be properly capped. In this regard, action plan will be submitted by June 2003 and for compliance by December 2003.	is no process plant which generates gypsum.			
2	An action plan for proper handling, storage and disposal of spent catalyst having toxic metals will be submitted by June 2003 and implemented by September 2003. The industry will also explore recovery/buy-back of spent catalyst by September 2003.	parties who are having Authorisation from CPCB for reprocessing the waste and recovery of metals.			
3	Carbon slurry, sulphur muck and chalk will be properly managed and disposed of in properly designed landfill either within premises or in common facility. Action plan on this will be submitted by June 2003 and implemented by March 2004.	Acid Plant is used as filler material in DAP Plant. There is no generation of Carbon slurry, and chalk at our			

SI.No.	Stipulation	Compliance			
4	Existing stock of chromium and arsenic bearing sludge will be properly disposed by December 2003. Industries will also explore recovery of chromium from the sludge. CPCB will provide guidelines for proper disposal of the sludge.	chromate sludge because cooling water treatment system has been changed over from chromate to non-			
		Chromate sludge generated prior to September 1991 was disposed in a secured on-site landfill during February 2006.			
		We are using Benfield solution for CO <sub>2</sub> absorption in Ammonia plant ever since commissioning of our plants. Hence, we do not use any arsenic containing chemical in our plant and there is no arsenic bearing sludge generation.			

# NOISE LEVELS AT PLANT BOUNDARY

Noise Levels monitored at the plant boundary for the period: 01.04.2025 to 30.09.2025

MORE	Location	Noise Level in dB(A)	vel in c
		Day	
April 2025	Near Administration Building	53	
	Near Captive Power Plant	62	
	Near East boundary wall	52	
	Near 18 MG Reservoir	54	
	Near Main Gate	09	
May 2025	Near Administration Building	52	
	Near Captive Power Plant	64	
	Near East boundary wall	53	
	Near 18 MG Reservoir	53	
	Near Main Gate	62	
June 2025	Near Administration Building	53	
	Near Captive Power Plant	64	
	Near East boundary wall	54	
	Near 18 MG Reservoir	51	
	Near Main Gate	62	
July 2025	Near Administration Building	52	
	Near Captive Power Plant	65	
	Near East boundary wall	54	
	Near 18 MG Reservoir	53	
	Near Main Gate	99	1

Paradeep Phosphates Limited
Mangala Bhavan
Panambur, Mangaluru - 575010.

September 2025					¢.				
Near Main Gate	Near 18 MG Reservoir	Near East boundary wall	Near Captive Power Plant	Near Administration Building	Near Main Gate	Near 18 MG Reservoir	Near East boundary wall	Near Captive Power Plant	Near Administration Building
66	50	53	65	55	65	51	52	66	53
61	47	47	60	49	60	47	48	59	48

Paradeep Phosphates Limited Mangala Bhavan Panambur, Mangaluru - 575010.