



DFPCL-K-1/EHS/Env/MoEF/2018-19

Date: 30th Nov-2018

**Additional Principal Chief Conservator of Forest (C),
Ministry of Environment, Forest & Climate Change,
Regional Office (WCZ), Ground Floor, East Wing,
New Secretariate Building, Civil Lines
Nagpur – 440 001, Maharashtra.**

Reference:

1. EC granted for Iso Propyl Alcohol vide file no. (J-11011/218/2004-IA II(I) dt 24.02.2006).
2. EC granted for Gas Based Power Project vide file no. (SEAC-2010/CR.656/TC.2 dt 11.05.2011).
3. EC granted for for NPK Fertilizer Manufacturing Unit 6 Lakhs MTPA Project vide no. C F NO J-11011/320/2012-IA II(I) dt 12.10.2015.
4. EC granted for Bentonite Sulphur Project vide file no. J-11011/481/2007-IA-II(I) dt 05/12/2007.

Sub: Half yearly Environmental Clearance Compliance report.

Dear Sir,

Please find enclosed the half yeraly EC compliance report of **Iso Propyl Alcohol plant, Gas Based Power plant, NPK Fertilizer Manufacturing and Bentonite Sulphur plant** for the period of **April-2018 to Sept -2018**.

This is for your information and records please.

Thanking you,

Yours faithfully,

For, DEEPAK FERTILIZERS AND PETROCHEMICALS CORP. LTD.,

DEEPAK PANDE
Head (EHS)

CC :

1. SRO, MPCB, Raigad Bhavan, 7th Floor, Sector-11, CBD-Belapur, Navi Mumbai – 400614.
2. Ministry of Environment, Forest, 1st Floor, New Administrative Building, Mantralaya, Mumbai – 400032.
3. CPCB Parivesh Bhawan, Opp. VMC Ward Office No. 10, Shubhanpura, Vadodara, Gujarat 390023

Environment Clearance for IPA (J-11011/218/2004-IA II(I) dated 24.02.2006), MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi - 110 003.

SN	Specific Conditions	Status of compliance as on 30/09/18
i)	The gaseous emissions (SO ₂ , NO _x , NH ₃ & HCl) and particulate matter from various process units shall confirm to the standards prescribed by authority from time to time. At no time the emission levels shall go beyond the stipulated standards. The Stack height shall be as per CPCB guidelines. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Further, the company shall interlock the production system with the pollution control devices.	There is no process stack in IPA emitting any gaseous emissions (SO _x , NO _x , NH ₃ , HCl & SPM). However online monitoring of other plants stacks is being done through multiplexing. OCEMS upgradation project is taken-up for installation of analyzers on individual process and utilities stacks. The stacks meet height requirement as per CPCB guidelines. All care is taken to keep the pollution control devices operational. (Annexure - 1)
ii)	AAQ monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentrations are anticipated in consultation with the MPCB.	Three continuous monitoring AAQM stations are installed and connected to MPCB portal and operated continuously.
iii)	Fugitive emissions in the work zone environment, product and raw material storage area shall be regularly monitored. The emissions shall be controlled and confirm to the limits prescribed by CPCB.	In IPA plant fugitive emissions are hydrocarbon and 11 detectors are installed at critical locations.
iv)	Total water requirement should not exceed 2800 m ³ /day as per permission accorded by MIDC vide letters dated 03.03.04 and 07.07.05. Further, efforts shall be made for further conservation of water and utilization of waste water.	Water requirement doesn't exceed. As a part of water conservation waste water of the plants is utilized to reduce fresh water consumption. RO system is installed for waste water utilization.
v)	The effluent generation shall not exceed 667 m ³ /day. All the effluent shall be treated in the augmented ETP and shall be monitored for the pH, SS, TDS, O & G, BOD, COD, Phosphates & ammoniacal Nitrogen & other relevant parameters. All the treated effluent shall be sent to CETP at Taloja for further treatment. The domestic effluent shall be treated in the existing Sewage Treatment Plant.	Effluent generation is maintained within the stipulated norms. In IPA plant itself the COD water stream treated in organic recovery column to reduce the COD before sending it to ETP. In addition to monitoring of all the ETP parameters (pH, SS, TDS, O & G, BOD, COD, Phosphates & ammoniacal Nitrogen & other relevant parameters) through sampling internally and third party, OCEMS is installed for monitoring of ETP parameters (pH, TSS, BOD, COD, NH ₄ N, NO ₃ N, Fluorides and Flow) Treated effluent is sent to CETP Taloja. Domestic effluent is used at ETP bioreactor. (Annexure - 3)

SN	Specific Conditions	Status of compliance as on 30/09/18
vi)	<p>The company shall undertake following Waste Minimization measures:</p> <ul style="list-style-type: none"> * Metering and control of quantities of active ingredients to minimize waste * Reuse of by-products from the process as raw materials or as raw material substitute in other processes. * Use of automated filling to minimize spillage * Use of close feed system into batch reactor * Venting equipment through vapour recovery system * Use of high pressure hoses for equipment cleaning to reduce waste water generation 	<ul style="list-style-type: none"> *No active ingredient involved in IPA *Propane and Di Isopropyl Ether are the by products from IPA plant and these are sold to customers. *All the tankers are filled through the closed automated system to avoid the spillage. *Our IPA plant is a continuous process and closed filled system is provided to reactor. *As such there is no venting equipment however critical vents are connected to flare system. *High pressure are used to clean the equipments during shutdowns.
vii)	<p>The solid waste generated in the form ETP sludge shall be stored in HDPE lined secured landfill at the site. Spent catalyst and used oil shall be sold to authorized re-processor.</p>	<p>ETP sludge is sent to CHWTSDF facility. Spent catalyst and used oil are sold to authorized re-processor.</p>
viii)	<p>The project authorities shall strictly comply with the rules and guidelines under MSIHC Rules, 1989 as amended in October, 1994 and January 2000 and HWMH Rules, 2003 as amended from time to time. Authorization from the SPCB shall be obtained for collection, treatment, storage and disposal of hazardous wastes.</p>	<p>All related provisions of MSIHCR-1989 and HWMHR-2003, with their amendments are complied with. Authorization through CTO, valid till 30/09/2020, is obtained from MPCB for collection, treatment, storage and disposal of hazardous waste.</p>
ix)	<p>Company shall develop surface/roof top rain water harvesting structures to harvest runoff water for recharge of ground water.</p>	<p>Rain water harvesting system is provided at WNA 3 & 4 plants.</p>
x)	<p>Green belt shall be provided in at least 25% of the plant area to mitigate the effects of fugitive emission all around the plant. Development of green belt shall be as per CPCB guidelines.</p>	<p>Complied with. 31.42 % of plot area is developed as Green belt. In addition to this, green belt on 50 acre of degraded forest land is also developed at Dhavdi Village which is located near Dombivali which approximately 15 kms away from our site.</p>
xi)	<p>Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the factories act.</p>	<p>Medical examination of all the workers is done once in a six month as per the factories act and records are maintained.</p>
SN	General Conditions	Status of compliance
i)	<p>Project authorities shall strictly adhere to the stipulations made by the MPCB</p>	<p>Complied with.</p>
ii)	<p>At no time the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be put out of operation and shall not be restarted until the desired efficiency has been achieved.</p>	<p>Same as specific condition No. 1.</p>

SN	General Conditions	Status of compliance
iii)	No further expansion or modification in the plant should be carried out without prior approval of the Ministry of Environment and Forests. 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.	Complied
iv)	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the EP Act, 1986, Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Acoustic enclosures have been provided to DG sets. Periodic noise monitoring is done by MOEF approved 3rd party laboratory at six different locations and noise level is within the standards prescribed under EP Act,1986, Rules, 1989. (Annexure - 5)
v)	The Project Proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA report.	Environment protection measures and recommendations given in EIA are complied with.
vi)	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry-out the Environmental Management and Monitoring functions.	A separate Environmental Management Cell equipped with required facilities is set up.
vii)	The Project authorities shall earmark separate funds of Rs 25.80 lakhs to implement the conditions stipulated by the Ministry of Environment and Forest as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Fund is utilized for implementation of environmental safeguard.
viii)	The Company shall undertake welfare measures and community development measures for the local people in the vicinity of project area.	CSR activities are carried out through Ishanya Foundation Trust, set up by the company for rural development, women empowerment, health & education. Various CSR activities are carried out, like: 1. Providing cows to nearby villagers. 2. Providing sewing machines and training for tailoring to women in the nearby villages. 3. Forty Eight Computers are distributed to Govt schools in the area as a part of Mission Digital India 4. Wadi project is taken in villages for horticultural projects and vegetables production in the area, more than two hundred farmers are getting advantage of mission. they are earning to the tune of Rs 5 to 10 thousand per month. 5. Green belt development and upkeep project on 50 acer of degraded forest land, about 10 farming workers getting advantage of mission. (Annexure - 6)

SN	General Conditions	Status of compliance
ix)	The implementation of the project vis-a-vis environmental action plan shall be monitored by the Ministry's Regional Office at Bhopal / MPCB / CPCB. A Six monthly compliance status report shall be submitted to monitoring agencies.	Six monthly compliance reports are being sent to Regional Office of MOEF/MPCB/CPCB. Last report was sent on 28th May 2018. Copy of the same posted on the company's web-site.
x)	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the letters are available with the MPCB and may also be seen at website of the Ministry at http:// envfor.nic.in . This shall be advertised within seven days from date of issue of the clearance letter at least in two local news papers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and the copy of the same shall be forwarded to ministry's regional office at Bhopal.	Complied with
xi)	The project authorities shall inform the Regional Office as well as Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Complied with
xii)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
xiii)	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Noted
xiv)	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Environment (Protection) Act, 1986, Hazardous Wates (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted

Environment Clearance for Gas Based Power Project (SEAC-2010/CR.656/TC.2 dated 11.05.2011) - Government of Maharashtra, Environment Department, Room No 217, 2nd Floor, Mantralaya Annexe, Mumbai - 400 032.

SN	Specific Conditions	Status of compliance as on 30/09/18
i)	Project proponent should confirm that, there is no increase in waste water & air pollutants discharged into environment due to proposed expansion.	Complied.
ii)	This environmental clearance is issued subject to land use verification. Local authority / planning authority should ensure this with request to Rules, Regulations, Notifications, Government Resolutions, Circulars, etc. Issued if any. This environmental clearance issued with respect to the environmental consideration and it does not mean that State Level Impact Assessment Authority (SLIAA) approved the proposed land use.	Noted.
iii)	'Consent for Establishment' shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment Department before start of any construction work at the site.	Complied with, CTE received on 10.12.2015.
iv)	No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.	Complied
v)	No additional land shall be used / acquired for any activity of the project without obtaining proper permission.	Noted.
vi)	For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.	The area in and around GT is paved and no dust is generated.
vii)	Regular monitoring of the air quality, including SPM & SO ₂ levels both in work zone and ambient air shall be carried out in and around the power plant and record shall be maintained. The location of the monitoring stations & frequency of monitoring shall be decided in consultation with MPCB & submit report accordingly to MPCB.	Three continuous monitoring AAQM stations are installed and these are connected to MPCB portal. These station monitors various parameters like PM10 & PM2.5, SO ₂ , NO _x & NH ₃ and CO are monitored through these stations. Work environment monitoring is done in the work zone through third party approved by MOEF. (Annexure - 2)
viii)	A detailed scheme for rain water harvesting shall be prepared and implemented to recharge ground water.	System for rain water harvesting is provided at existing WNA 3 & 4 plant.
ix)	Arrangement shall be made that effluent and storm water do not get mixed.	Effluent and storm water are having separate drains.
x)	Periodic monitoring of ground water shall be undertaken and results analysed to ascertain any change in the quality of water. Results shall be regularly submitted to the MPCB.	Periodic ground water monitoring is being carried out near ETP. Reports are submitted to MPCB. (Annexure - 7)

SN	Specific Conditions	Status of compliance as on 30/09/18
xi)	Leq of Noise level shall be maintained as per standards. For people working in the high noise area, requisite PPE like earplugs, etc. Shall be provided.	Periodic noise monitoring by third party (MoEF Approved) laboratory is carried out at six different locations and ambient noise level is within the standards prescribed. Requisite PPE like earplugs, etc. are provided for people working in the high noise area.
xii)	Proper House keeping programmes shall be implemented.	5S program has been implemented to maintain proper House keeping.
xiii)	The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. On all the sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the EPA, 1986 & Rules, 1989.	Periodic noise monitoring is done by MOEF approved 3rd party laboratory at six different locations and noise level is within the standards prescribed under EP Act,1986, Rules, 1989. (Annexure - 5)
xiv)	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species & in consultation with the local DFO / Agriculture Dept.	Complied with. 31.42 % of plot area is developed as Green belt. In addition to this, green belt on 50 acre of degraded forest land is also developed at Dhavdi Village which is located near Dombivali which approximately 15 kms away from our site.
xv)	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection & warning.	Leak detection devices such as gas detectors are provided at strategic places for early detection and warning. In built safety measures such as interlocks and trips are provided for critical process parameters. In addition to it onsite emergency control plan has also been prepared.
xvi)	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.	Medical examination of all the workers is done in once in six months as per the factories act and records are maintained.
xvii)	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Fire detection, fire protection and fire fighting arrangements have been provided in manufacturing process and in material handling areas. Company has a dedicated fire team and regular mock drills are conducted. Company also has two fire tenders

SN	Specific Conditions	Status of compliance as on 30/09/18
xviii)	The project authorities must strictly comply with the rules & regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management & Handling) Rules, 2003 (amended). Authorization from MPCB shall be obtained for collection/treatment/storage/disposal of hazardous waste.	Complied.
xix)	The company shall undertake following Waste Minimization Measures. a. Metering 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 process. c. Maximizing Recoveries. d. Use of automated material transfer system to minimize spillage. e. Use of "Closed Feed" system into batch reactors.	a) No active ingredient involved in GT b) There is no by product from GT c) Waste heat from GT is recovered to produce steam in HRSG. d) GT & HRSG operations are fully automated. e) As such there is no reactor in the GT however the feed system is closed one.
xx)	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.	Regular mock drills for the on-site emergency management plan are carried out. On site emergency plan is reviewed and revised periodically. (Annexure - 4)
xxi)	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	A separate Environmental Management Cell equipped with required facilities is set up.
xxii)	Transportation of ash will be through closed containers & all measures should be taken to prevent spilling of the ash.	Not applicable for GT as it is gas based.
xxiii)	Separate silos will be provided for collecting & storing bottom ash & fly ash.	Not applicable for GT as it is gas based.
xxiv)	Separate funds shall be allocated for implementation of environmental protection measures / EMP along with item wise break up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes & year-wise expenditure should be reported to the MPCB & this department.	Fund is utilized for implementation of environmental safeguard and details are reported to MPCB as part of Form V.
xxv)	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the MPCB and may also be seen at Website at http://envis.maharashtra.gov.in	Complied with.

SN	Specific Conditions	Status of compliance as on 30/09/18
xxvi)	Project management should submit half yearly compliance reports in respect of the stipulated prior environmental clearance terms & conditions in hard & soft copies to the MPCB & this department on 1 st June & 1 st December of each calendar year.	Six monthly compliance reports are being sent to MPCB and regional office of MOEF. Last report was sent on 28th May 2018. Copy of the same is posted on the company's web-site.
xxvii)	A copy of clearance letter shall be sent by proponent to the concerned Municipal Corporation & the local NGO, if any, from whom suggestions / representations, if any were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied with. EC conditions compliances is posted on the website of the company. Advertisement for availability of EC copy on MoEF website was published in local newspaper 'Krushiwal' for any suggestions/representations.
xxviii)	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website & shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB & the SPCB. The criteria pollutant levels namely SPM, RSPM, SO ₂ , NO ₂ (ambient levels as well as stack emissions) or critical sectoral parameters indicated for the project shall be monitored & displayed at a convenient location near the main gate of the company in the public domain.	Six monthly compliance reports are being sent to MPCB and regional office of MOEF. Last report was sent on 28th May 2018. Copy of the same posted on the company's web-site. Three continuous monitoring AAQM stations are installed and connected to MPCB portal. These station monitors various parameters like PM10 & PM 2.5, SO ₂ , NO _x , NH ₃ & CO. This data is displayed at main gate. Stack emissions are also monitored periodically through the MOEF approved third party laboratory.
xxix)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB & the SPCB.	Six monthly compliance reports are being sent to MPCB and regional office of MOEF. Last report was sent on 28th May 2018.
xxx)	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned SPCB 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 EC conditions & shall also be sent to respective Regional Offices of MoEF by e-mail.	The environmental statement for each financial year ending 31st March in Form-V as is being submitted online to the MPCB before 30th September. Form V is also being uploaded on company website. (Form V was submitted online on 27.09.2018 for financial year 2017-18).
xxxi)	The environmental clearance is being issued without prejudice to the court case pending in the court of law & it does not mean that project proponent has not violated any environmental laws in the past & whatever decision of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.	Noted

SN	Specific Conditions	Status of compliance as on 30/09/18
xxxii)	The Environment department reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.	Noted.
xxxiii)	Validity of Environment Clearance - The Environmental Clearance accorded shall be valid for a period of 5 years to start of production operations.	Noted and complied.
xxxiv)	In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the conditions imposed and to incorporate additional environmental protection measures required, if any.	Noted.
xxxv)	The above conditions would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.	Noted
xxxvi)	Any appeal against this environment clearance shall lie with the National Environmental Appellate Authority, if preferred, within 30 days as prescribed under section 11 of the National Environmental Appellate Act, 1997.	Noted

Environment Clearance for NPK Fertilizer Manufacturing Unit 6 Lakhs MTPA dated 12.10.2015 C F NO J-11011/320/2012-IA II(I) Government of India, Ministry of Environment, Forest and Climate Change (I.A. Division), Indira Paryavaran Bhawan, Aliganj, Jorbagh Road, New Delhi - 110003.

SN	Specific Conditions	Status of compliance as on 30/09/18
i)	All the conditions stipulated in environmental clearance J-11 011/218/2004-IA (II) dated 24 th February, 2006 and SEAC-2010/CR.656/TC.2 dated 11 th May, 2011 accorded for the existing projects shall be implemented.	Conditions stipulated in the environment clearance of IPA & GT 3,4 &5 are complied with. Six monthly status on their compliance is sent to MOEF, last such report was sent on 28th May 2018.
ii)	The project proponent shall follow guidelines and policies of the State Government w.r.t. The river regulation zone for conservation of river. State Pollution Control Board shall issue the consent to establish/consent to operate after complying the guidelines for the location of unit from river.	RRZ policy is not applicable to our site.
iii)	Ammonia bearing fumes from the reactor and granulator of the Complex Fertilizer shall be scrubbed. Scrubbing shall have interlocking system with main plant.	Two stage Scrubber is provided for scrubbing of fumes from reactor & granulator with interlock in DCS with main plant.
iv)	The gaseous emissions (SO ₂ , NO _x , NH ₃ , HC and Fluoride) and particulate matter from various process units shall conform to the norms prescribed by the CPCB/SPCB from time to time. At no time, the emission levels shall go beyond the prescribed standards. Air emission shall be monitored online (24x7) by the Company. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack emissions shall be monitored regularly.	<p>The gaseous emissions PM, Ammonia, NO_x, and Fluoride from NPK plant are within the stipulated limits. Hydrocarbon and SO₂ are not emitted from NPK stacks however this is also monitored through MOEF approved third party laboratory. As per the recent guidelines from CPCB actions have been taken to install the sensors for PM, Fluoride, NO_x and Ammonia and these are hooked up to CPCB portal .</p> <p>Stack emissions are monitored quarterly through MOEF approved third party laboratories.</p> <p>Three continuous monitoring AAQM stations installed and connected to MPCB porta these stations monitor various parameter like PM10, PM2.5 etc are installed and operational as per NAAQMS norms.</p> <p>All care is taken to keep the pollution control devices operational.</p> <p>All the parameters are also periodically through MoEF approved third party lab.</p> <p>(Annexure - 1)</p>
v)	Ambient air quality data shall be collected as per NAAQES standards notified by the the Ministry vide G.S.R. No. 826(E) dated 16th September, 2009. The levels of PM10 (Urea dust), SO ₂ , NO _x ; Ammonia, Ozone and HC shall be monitored in the ambient air and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal office of CPCB and the Maharashtra Pollution Control Board (MPCB), Calibration of continuous ambient air quality monitoring stations shall be conducted quarterly.	<p>Three continuous monitoring AAQM stations connected MPCB portal. These station monitors various parameters like PM10 & PM 2.5, SO₂, NO_x & NH₃ & CO. The results of the monitoring are displayed near main gate of the company. These are also uploaded on the company's website.</p> <p>Six monthly reports are also seen to regional office of MOEF & MPCB.</p> <p>Calibration of continuous ambient air quality monitoring stations is conducted quarterly.</p> <p>Ozone and hydrocarbon are monitored through the MOEF approved third party by sampling.</p>

SN	Specific Conditions	Status of compliance as on 30/09/18
vi)	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals / materials, multi cyclone separator and water sprinkling system. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions should conform to the limits stipulated by the MPCB.	In NPK plant all the chemicals are stored in closed containers and transferred through the pipelines. Solid raw material is handled through bucket elevators. Fugitive emissions in the work zone environment and storage area is monitored periodically through the MOEF approved third party laboratory and these are within the stipulated norms.
vii)	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	The gaseous emission from DG sets is dispersed through adequate stack height and acoustic enclosure has been provided.
viii)	Unit shall never store ammonia more than 10,000 Ton at the site. If eventuality arises and it needs to be emptied, the additional 3000 T ammonia storage to be kept standby and the rest of NH3 to be transported to JNPT site, where they store Imported ammonia.	Noted.
ix)	Total water requirement shall not exceed 500 m3/day for the proposed unit and met from treated / recycled water.	Complied.
x)	Industrial effluent shall be treated in effluent treatment plant (ETP) and recycled back in the process	Complied.
xi)	No effluent shall be discharged outside the premises and 'Zero' effluent discharge shall be ensured.	500 m3/day is recycled in our RO unit and 100 m3/day reject is used in the NPK process.
xii)	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	There are separate drains for process effluent and storm water. Pond has been provided for the storm water drain.
xiii)	All the effluents after treatment shall be routed to a properly lined guard pond for equalization and final control. In the guard pond, automatic monitoring system (24x7) for flow, and relevant pollutants (i.e. pH, ammoniacal nitrogen, nitrate nitrogen etc.) shall be provided with high level alarm system. Monitoring Data to be provided to respective Regional Office of the MoEF and Company's website.	Total treated effluent is equalized for final control in a RCC tank. Automatic continuous monitoring system for flow and relevant pollutants that is pH, ammoniacal nitrogen, nitrate nitrogen, BOD, COD, TSS and Fluoride are provided and these are connected to MPCB & CPCB portals. High level alarm systems has been provided to these equalisation tanks.

SN	Specific Conditions	Status of compliance as on 30/09/18
xiv)	Regular monitoring of ground water by installing piezometric wells around the guard pond and sludge disposal sites shall be periodically monitored and report shall be submitted to the concerned Regional Office of the Ministry, CPCB and SPCB	Ground water monitoring report is submitted to Regional office MOEF,CPCB and MPCB.
xv)	The company shall construct the garland drain all around the project site to prevent runoff of any chemicals containing waste into the nearby water bodies. Effluent shall be properly treated and treated wastewater shall conform to CPCB standards	Garland drain has been constructed all around the project site to prevent runoff of any chemicals containing waste into the nearby water bodies. The effluent is treated in ETP ensuring compliance with prescribed parameters.
xvi)	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes. Measures shall be taken for fire fighting facilities in case of emergency.	Consent to operate comprises of HW requirements. Fire detection, fire protection and fire fighting arrangements have been provided in manufacturing process and in material handling areas. Company has a dedicated fire team and regular mock drills are conducted. Company also has two fire tenders.
xvii)	Spent catalysts and used oil shall be sold to authorized recyclers/re-processors only	There is no catalysts used in NPK plant and used oil is sold to authorized recyclers/re-processors only.
xviii)	The Company 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	MSIHC rules are followed strictly, All Transportation of Hazardous Chemicals is as per the Motor Vehicle Act (MVA), 1989.
xix)	Remote operated valve placed on NH3 line to avoid leakage/equipment check shall be performed to ensure that remote operated valve (ROV) is all time is functional.	Remote operated valve is installed on NH3 line. Equipment checks are performed to avoid the leakages remote operated valve is all time functional.
xx)	The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP).	Recommendations mentioned in CREP are followed.
xxi)	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 OISD 117 norms.	Adequate Fire fighting system has been provided as per the TAC norms which is inspected as per the Maharashtra Fire and Life Safety Measures Act. Inspection Report in Form B will be submitted in January and July every year to Director - Maharashtra Fire Services.
xxii)	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Six monthly periodic medical check-up is carried out of all workers and records are maintained in Form-7 as per the Factories Act.

SN	Specific Conditions	Status of compliance as on 30/09/18
xxiii)	Green belt shall be developed in 33 % of the plant area. Selection of plant species shall be as per the CPCB guidelines.	Complied with. 31.42 % of plot area is developed as Green belt. In addition to this, green belt on 50 acre of degraded forest land is also developed at Davadi Village which is located near Dombivali which approximately 15 kms away from our site.
xxiv)	Provision shall be made for the housing for the construction Labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	Complied with, residential facility was not needed during the construction phase as the construction labour were local from local areas.
SN	General Conditions	Status of compliance
i)	The project authorities shall strictly adhere to the stipulations made by the State Government and Maharashtra Pollution Control Board.	Complied with as per CTO.
ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. 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.	Noted.
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 stations is installed in the upwind and downwind directions as well as where maximum ground level concentrations are anticipated.	Three continuous monitoring AAQM stations are installed and connected to MPCB portal.
iv)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Periodic noise monitoring by third party (MoEF Approved) laboratory is carried out near main gate, IPA gate and ANP gate; and ambient noise level is within the standards prescribed. Acoustic enclosures are provided to DG sets. (Annexure - 5)

SN	General Conditions	Status of compliance
v)	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.	Rain water harvesting system is provided at WNA 3 & 4 plants.
vi)	Training shall be imparted to all employees on safety and health aspects of chemicals handling. 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.	Training is imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees are undertaken on regular basis.
vii)	Usage of Personnel Protection Equipments (PPEs) by all employees / workers shall be ensured.	Complied with.
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, risk mitigation measures and public hearing relating to the project shall be implemented.	Complied with. Environment protection measures and recommendations given in EIA are complied with.
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.	<p>CSR activities are carried out through Ishanya Foundation Trust, set up by the company for rural development, women empowerment, health & education. Various CSR activities are carried out, like:</p> <ol style="list-style-type: none"> 1. Providing cows to nearby villagers. 2. Providing sewing machines and training for tailoring to women in the nearby villages. 3. Forty Eight Computers are distributed to Govt schools in the area as a part of Mission Digital India 4. Wadi project is taken in villages for horticultural projects and vegetables production in the area, more than two hundred farmers are getting advantage of mission. they are earning to the tune of Rs 5 to 10 thousand per month. 5. 31.42 % of plot area is developed as Green belt. <p>In addition to this, green belt on 50 acre of degraded forest land is also developed at Dhavdi Village which is located near Dombivali which approximately 15 kms away from our site.</p> <p>(Annexure - 6)</p>
x)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	<ol style="list-style-type: none"> 1. Tree plantation in the MIDC area is carried out. 2. Beautification on the part of Kasardi river near our complex is planned as part of community development. 3. 31.42 % of plot area is developed as Green belt. <p>In addition to this, green belt on 50 acre of degraded forest land is also developed at Dhavdi Village which is located near Dombivali which approximately 15 kms away from our site.</p>

SN	General Conditions	Status of compliance
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.	A separate Environmental Management Cell equipped with required facilities is set up.
xii)	As proposed, company shall earmark sufficient funds toward capital cost and recurring cost respectively to implement the conditions stipulated by the Ministry of Environment and Forests 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.	Budget for Environment department for the year 2017-18 was of Rs 13,50,000/- The fund so earmarked for environment management/ pollution control measures is not diverted for any other purpose.
xiii)	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions / representations, if any, were received while processing the proposal.	Complied with. Advertisement for availability of EC copy on MoEF website was published in local newspaper 'Krushiwal' date 21.10.2015 for any suggestions/representations.
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, the respective Zonal Office of CPCB and the Maharashtra Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Six monthly compliance reports are being sent to regional office of MOEF and MPCB. Last report was sent on 28th May 2018. Copy of the same uploaded on the company's web-site.
xv)	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 by e-mail.	The environmental statement for each financial year ending 31st March in Form-V as is being submitted online to the MPCB before 30th September. Form V is also being uploaded on company website. (Form V was submitted online on 27.09.2018 for financial year 2017-18).

SN	General Conditions	Status of compliance
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 http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Complied with. Advertisement for availability of EC copy on MoEF website was published in local newspaper 'Krushiwal' date 21.10.2015 for any suggestions/representations.
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.	Complied with.
xviii)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Complied with.
xvix)	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Noted.
xx)	The above conditions will be enforced, inter alia, under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted.

Compliance Status to Environment Clearance No. J-11011/481/2007-IA-II(I) dated 05/12/2007 for Bentonite Sulphur

SN	Specific Conditions	Status of compliance as on 30/09/18
i)	<p>a) Adequate chimney height, hoods, exhaust fans, exhaust ducts and scrubbers shall be provided to control emissions from boiler and DG set as per standards / norms.</p> <p>b) The molten Sulphur tank and mixing tank shall be provided with vents connected to filters to absorb the Sulphur and should be neutralized by using clay to control particulate matter less than 50 mg/nm³ or standards prescribed by the MPCB whichever are more stringent.</p> <p>c) Periodic monitoring of vents shall be carried out and reports submitted to the Ministry's Regional Office at Bhopal/MPCB/CPCB.</p>	<p>a) Not applicable as neither Boiler nor DG Set are installed at K-7.</p> <p>b) The molten Sulphur tank vent is connected to Carbon / Multi Grade Filter & Blower is provided to Mixing Tank.</p> <p>c) Periodic monitoring of particulate matter is carried out by third party & the results are well within limit. (Annexure - 1)</p>
ii)	<p>High level vents and fume extraction system shall be provided to the molten Sulphur tank and mixing tank to control emissions.</p>	<p>The molten Sulphur tank vent is connected to Carbon / Multi Grade Filter & Blower is provided to Mixing Tank.</p>
iii)	<p>a) Total water requirement from MIDC supply and effluent generation shall not exceed 31 m3/day and 7.5 m3/day respectively. No ground water shall be used. 'Permission' for the drawl of 31 m3/day shall be obtained from the concerned Department. All the effluent containing minor doses of phosphates, biocides, Sulphur dust and Bentonite Clay shall be properly treated and clear liquid shall be sent to CETP at Talaja for further treatment. Project authorities shall ensure valid 'Membership' to CETP.</p> <p>b) Domestic effluent shall be treated in septic tank followed by soak pit.</p>	<p>a) The water consumption is within the limits specified. Effluent is treated suitably & disposed to CETP, Talaja. Membership Certificate from CETP is obtained.</p> <p>b) Septic tank & soak pit are provided.</p>
iv)	<p>a) As reflected in the EIA / EMP report, 90% of the solid waste shall be recycled back into the process and remaining shall be sold as fertiliser to authorized customers. No solid/hazardous waste shall be disposed off.</p> <p>b) The used oil shall be sold to registered recyclers only.</p>	<p>a) Solid/Hazardous waste is recycled back into process as per the requirement. Balance solid waste is stored properly and sold to authorized customers.</p> <p>b) The used oil is sold to registered recyclers.</p>
v)	<p>As proposed, green belt of adequate width and density shall be developed in 1.175 acres out of total 4.7 acres (25%) area to mitigate the effects of fugitive emissions all around the plant as per the CPCB guidelines.</p>	<p>31.42 % of plot area is developed as Green belt. In addition to this, green belt on 50 acre of degraded forest land is also developed at Dhavdi Village which is located near Dombivali which approximately 15 kms away from our site.</p>

SN	General Conditions	Status of compliance
i)	The project authorities must strictly adhere to the all stipulations made by the MPCB and State Govt.	Noted and complied with.
ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the MoEF. 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.	Noted.
iii)	The gaseous emissions (SO ₂ and NO _x) and particulate matters from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system (s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	Gaseous emissions are monitored periodically by MOEF approved third party laboratory and results are within the stipulated standards. (Annexure - 1)
iv)	Ambient air quality monitoring stations shall be set up in the down wind direction as well as where maximum ground level concentration of SPM are anticipated in consultation with the State Pollution Control Board. Regular ambient air quality monitoring including RSPM shall be carried out and data submitted to Ministry's Regional Office at Bhopal/MPCB/CPCB.	Ambient air quality monitoring is carried out by third party at various locations periodically. (Annexure - 2)
v)	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) 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 EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night-time).	Ambient noise levels are checked periodically and results are within the norms.
vi)	Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Periodical medical check up is carried out for all employees and Health Register (Form 7) is maintained.
vii)	The project authorities shall provide adequate funds for environmental pollution control measures to implement the conditions stipulated by the MoEF as well as State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.	Complied.

SN	General Conditions	Status of compliance
viii)	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management & Handling) Rules, 2003. Authorization from the MPCB shall be obtained for collections/treatment, storage/disposal of hazardous wastes.	Authorization through CTO, valid till 30/09/2020, is obtained from MPCB for collection, treatment, storage and disposal of hazardous waste.
ix)	The stipulated conditions shall be monitored by the Regional office of this Ministry at Bhopal / MPCB. A six monthly compliance report and the monitored data shall be submitted regularly.	Six monthly compliance reports are being sent to regional office of MOEF and MPCB.
x)	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of clearance letter are available with MPCB / Committee and may also be seen at Website of the MoEF at http://envfor.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 Regional office.	Complied with.