राष्ट्रीय केमिकल्स एण्ड फर्टिलाइजर्स लिमिटेड

(भारत सरकार का उपक्रम)
साथ बढ़ें समृद्धि की ओर

Rashtriya Chemicals & Fertilisers Limited

(Government of India Undertaking)
Let us grow together

1342

ISO 9001-2008, ISO 14001-2004, OHSAS 18001-2007 Compliant
थळ इकाई, थळ, तालुका अलिबाग, जिला रायगड (महाराष्ट्र) पिन - 402 208.
THAL UNIT, THAL, TALUKA ALIBAG, DIST. RAIGAD (MAHARASHTRA) PIN - 402 208.
● फॅक्स : 02141 - 238206 / 238091 ● FAX : 02141-238206 / 238091
Website : www.rcfltd.com CIN L24110MH1978GOI020185

CIN L24110MH1978GOI020185

TH/ 90/ RCF/Project/10/2017

25th October 2017

To,

Mr. Lalit Bokolia,
Additional Director,
Ministry of Environment, Forests & Climate Change,
Indira Paryavaran Bhavan, Aliganj, Jorbagh Road,
New Delhi - 110 003.

Sub : Submission of Six Monthly Compliance Report in respect of Expansion of Fertilizer unit by installing production stream of Ammonia (2200 MTPD) & Urea (3850 MTPD) at RCF Thal Fertilizer Complex, District- Raigad, Mharashtra, for the period from April -2017- September -2017.

Ref : 1) MOEF Office Memorandum No. J-11011/1291/2007-IA-II (I) Dated: 10th September 2012.
2) Amendment in Environment Clearance No. J-11011/1291/2007-IA-II (I) Dated: 1st May 2013.

Dear Sir,

We submit herewith the latest six monthly compliance report for the period from April -2017- September -2017 in respect of Expansion of Fertilizer unit by installing production stream of Ammonia & Urea plants at RCF Thal Fertilizer Complex. The office memorandum of Environment Clearance dated 10th September 2012 and subsequent Amendment in Environment Clearance dated 1st May 2013 as referred above was issued by MOEF for the following project as mentioned below.

Sr. No.	Plants & Facilities	Existing (After de-bottlenecking scheme)	EC obtained for Proposed Expansion (Thal –III)	After change in Configuration of the plant.
1.	Ammonia Plant	3500 MTPD	2200 MTPD	2200 MTPD
2.	Urea plant	6060 MTPD	3500 MTPD	3850 MTPD
	a) Power Generation	2 x 15 MW	1 x 18 MW GT Set 1 x 12 MW GT Set	1 x 18 MW GT + 1 x 12 MW GT Set
	b) Emergency DG Set	2 x 1600 KVA	2 x 1000 KVA	2 x 1000 KVA
3.	Steam Generation Facilities			
	a) HRSG (GT Set)	---------	1 x 120 TPH	1 x 120 TPH
4.	a) Auxiliary Boiler (GT Set)	----------	1 x 110 TPH	1 x 110 TPH

The project is yet to be finalized and it is subject to clearance from Cabinet Committee for Economic Affairs (CCEA). The project clearance has been obtained from Public Investment Board to Department of Fertilizers.

Please find enclosed herewith point-wise compliance status of various stipulations with supporting documents. Also enclosed are the reports of Monitoring of Environmental parameters like Ambient Air, Stack emissions, liquid effluent, noise etc. that are conducted on regular basis for existing plants as per statutory norms.

Thanking You.

Yours faithfully,

(R. P. Jawale)
Executive Director (Thal)
RCF Thal Unit

Enclosure :

1) Monitoring Report Data Sheet.
2) Six Monthly Compliance Report Point Wise in tabular form with Annexures

CC : for information please.

Copy to,

Director ,
Ministry of Environment , Forests & Climate Change,
Regional Office, (WCZ) , New Secretariat Building ,
(Opposite Old VCA Stadium),
Ground Floor, East Wing, Civil Lines,
Nagpur - 440001. Maharashtra.

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Monitoring the Implementation of Environmental Safeguards
Ministry of Environment & Forest
Western Region, Regional Office, Nagpur

MONITORING REPORT
PART – I
DATA SHEET
RASHTRIYA CHEMICAS AND FERTILISERS LTD, THAL UNIT

1.	Project type : River-valley/Mining/Industry/Thermal/Nuclear/Other (specify)	Industry
2.	Name of the project	Thal III Expansion Project
3.	Clearance letter (s)/OM No. and date Amendment in Environment Clearance letter (s)/ OM No. and date	J-11011/1291/2007-IA. II (I) dated 10.09.2012. J-11011/1291/2007-IA. II (I) dated 01.05.2013
4.	Location: a) District (s) b) State (s) c) Location Latitude/Longitude	 Raigad Maharashtra longitude $72^0$52'38" East and latitude $18^0$42'19" North
5.	Address for correspondence a) Address of the Head of the Unit (with Pin Code & telephone/ telex/ fax numbers) b) Address of the General Manager (with Pin Code & telephone/ telex/ fax numbers)	Shri. R. P. Jawale , Executive Director (Thal) RCF Thal Vaishet Dist Raigad, Maharashtra Pin 402208 Ph No 02141238001 Fax No 02141 238206 Shri. M . M. Deo General Manager (Technical) RCF Thal Vaishet Dist Raigad Maharashtra Pin 402208 Ph No 02141-238009 Fax No 02141-238206

6.	Salient features a) Of the project b) Of the Environmental management plans	a) 2200 MTPD Ammonia with NG/RLNG as feedstock and 3850 MTPD prilled Urea (Amendment in Environment Clearance for Urea capacity from 3500 MTPD to 3850 MTPD) b) All emissions shall be below prescribed norms. Flare stacks shall be installed for ammonia plant. Stacks of adequate height shall be installed for flue gasses to ensure proper dispersion. All condensates shall be recycled after proper treatment. The treated effluent shall be disposed off through existing marine outfall line. The solid waste shall be sold to authorized recyclers.
7.	Break up of the project area a) Submergence area: forest & non-Forest b) Others	 a) Nil b)Within boundaries of existing plot.
8.	Break up of the project affected population with enumeration of those losing houses/dwelling units only agricultural land only Both dwelling units & agricultural land & landless laborers/artisans: a) SC, ST/Adivasi b) Others (Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details & year of survey)	Not applicable. This project being brown field expansion, no land acquisition is involved.
9.	Financial details: Projects cost as originally planned and subsequent revised estimates and the year of price reference a) Allocation made for environmental management plans with item wise and year wise break-up b) Benefit cost ratio/Internal rate of Return and the year of assessment c) Whether © includes the cost of environmental management as shown in the above d) Actual expenditure incurred on the project so far e) Actual expenditure incurred on the environmental management plans so far	 Estimated Project cost is Rs 4115 crores a) The approximate capital cost towards environment protection is US $ 6 Million. The estimated recurring cost towards environment protection will be of the order of Rs 3 Crores/ Annum. b) IRR : post tax 12.39% Year of assessment 2012 c) Yes d) Approximately Rs 76 lakhs for pre-project activities. e) Nil
10.	Forest land requirement a) The status of approval for diversion of forest	a) NA

	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 actual field experience so far	b) NA c) NA d) NA
11.	The status of clear felling in non-forest areas (Such as submergence area or reservoir, approach Roads.), if any with quantitative information required.	No construction activity is started till date
12.	Status of construction (Actual &/or planned) a) Date of commencement (Actual &/or planned) b) Date of completion (Actual &/or planned)	a) No activity started till date. Planned zero date of project is yet to be finalized and it is subject to grant of CCEA clearance. b) Planned period of completion is thirty six months from zero date
13.	Reason for the delay I the project is yet to start.	The project clearance has been obtained from Public Investment Board to Department of Fertilizers.

Signature of Head of the Unit

25th October 2017

Six Monthly Compliance Report on Expansion of Fertilizer Unit by installing Production stream of Ammonia (2200 MTPD) and Urea (3850 MTPD) at RCF Thal Fertilizer Complex for the period of April 2016 to September 2016. MOEF Memorandum No. F. No. J-11011./1291/2007-IA-II (I) dated 10th September 2012 & Amendment in Environment Clearance No. F. No. J-11011./1291/2007-IA-II (I) dated 1st May 2013.

A. SPECIFIC CONDITIONS :

Sr. No.	CONDITIONS	COMPLIANCE
i)	The company shall obtain prior CRZ clearance for marine disposal of treated effluent as applicable.	The treated effluent of the new project is proposed to be disposed off through existing facility of Marine Outfall line installed in 1984 since inception of RCF Thal unit. The existing quantity of industrial effluent is in the range of 6600 m3/day to 7200 m3/day. The proposed quantity of industrial effluent is 3650 m3/day. The total quantity of Effluent after expansion will be in the range of 10,250 m3/day to 10,850 m3/day. Presently consented quantity of effluent from MPCB is 12,000 m3/day. Thus total effluent quantity will be less than the consented quantity. The design capacity of Marine Out fall line is 36,000 m3/day. There will not be any new construction/modification of existing Marine Out fall line. Therefore the condition for obtaining prior CRZ clearance for Marine disposal of treated effluent is not applicable.
ii)	All the conditions stipulated in environmental clearance J-11011/31/90-IA (II) dated 14th October, 1991, J-11011/8/92-IA(II) dated 22nd October, 1992, J- 11011/65/96-IA(II) dated 15th January, 1997 and J- 11011/862/2008-IA(II) dated 10th June, 2009 accorded for the existing projects shall be implemented	All the conditions stipulated in environmental clearance accorded for the existing projects are implemented. Six Monthly compliance reports are regularly submitted to Ministry.
iii)	The gaseous emissions (SO_2, NOx, NH_3, urea dust) 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	The gaseous emissions (SO_2, NOx, NH_3, urea dust) and particulate matter from various existing process units are conforming to the prescribed standards. Stack emissions are regularly monitored. Emission data is regularly submitted to CPCB /MPCB and data

	prescribed standards. 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.	is enclosed in *Annexure-I A/B/C.* Monitoring of emissions shall be done for expansion project also, once the project becomes operational.
iv)	Adequate stack height shall be provided to Ammonia plant reformer, Heat recovery steam generator (HRSG), NG/RLNG fired gas turbine and prilling tower, Low NOx burners shall be provided to control NOx emissions.	Adequate stack height is provided to existing Ammonia plant reformer & Urea prilling towers. Same will be provided to Heat recovery steam generator (HRSG), NG fired gas turbine & Low NOx burners to control NOx emissions for Expansion project.
v)	In Urea plant, particulate emissions shall not exceed 50 mg/Nm3. Monitoring of prilling tower shall be carried out as per CPCB guidelines.	In existing Urea plants, particulate emissions are below 50 mg/Nm3. Monitoring of prilling tower is carried out as per CPCB guidelines. The same shall also be followed for Expansion project.
vi)	Ambient air quality data shall be collected as per NNAQES standards notified by the Ministry vide G.S.R. No. 826(E) dated 16th September, 2009. The levels of PM10 (Urea dust), SO2, NOx, Ammonia, Ozone and HC shall be monitored in the ambient air and displayed at convenient locations 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)	For existing plants, Ambient air quality data is collected as per National Ambient Air Quality standards 2009. The levels of PM10 (Urea dust), PM 2.5, SO2, NOx, Ammonia are monitored at Continuous Air Monitoring stations & is being regularly displayed at the main gate of the company. Ambient Air data is uploaded on company website and will be updated the same periodically. Data will be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the Maharashtra Pollution Control Board (MPCB). The same shall also be followed for Expansion project.
vii)	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 & convenience of chemicals/materials, multi cyclone separator and water sprinkling system. Fugitive emissions in the work zone environment, product, and raw materials storage area shall be regularly	Control measures are provided for checking fugitive emissions from the vulnerable sources in the plant. Fugitive emissions are controlled and monitored in the work zone environment, production and raw materials storage. The emissions conform to the limits stipulated by the MPCB. The same shall also be followed for Expansion project.

	monitored. The emissions shall conform to the limits stipulated by the MPCB.	
viii)	The gasses emissions from the 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 stacks of adequate height are provided for dispersal of gaseous emissions from the DG sets as per CPCB standards. Acoustic enclosure are provided to the DG sets to mitigate the noise pollution.
ix)	Additional water requirement from MIDC water supply for the expansion plant shall not exceed 24,360 m3/day and prior permission shall be obtained from concerned authority and a copy submitted to the Ministry's Regional office at Bhopal. No ground water shall be used.	Water requirement from MIDC water supply for the expansion plant will not exceed 24,360 m3/day. There is agreement with MIDC for drawing 90,000 m3 water per day. No ground water will be used for the process activities.
x	An action plan shall be submitted to the Ministry and its Regional office at Bhopal regarding measures taken for water conservation and maximum recycling /reuse of treated waste water in the existing unit and proposed for implementation during the expansion.	In existing unit, Stripper condensate, Turbine condensate, steam condensate & process condensate from Ammonia & Urea plants are recycled to Water Treatment plant for raw water conservation. Waste water will be reused. Presently Treated domestic sewage effluent is used for gardening within factory premises.
xi	Total industrial waste water generation after expansion shall not exceed 10108 m3/day and treated in the ETP. Industrial waste water shall be treated in ETP. As proposed, Urea plant process condensate shall be treated in a deep hydrolyser followed by striping. Ammonia plant process condensate shall be stripped with steam followed by activated carbon and demineralization. Treated condensate shall be recycled / reused in the process. Utilities waste water shall be treated in the ETP and treated effluent shall be recycle/ reused. Treated effluent shall also be monitored for the parameters namely ammonical nitrogen, Nitrate, Fluoride, pH etc. The treated effluent which can not be reutilized shall be disposed off through marine outfall (MOF) system after obtaining permission from MPCB and achieving norms stipulated by the MPCB/CPCB. Sewage shall be treated in STP and treated water shall be recycled /reused within factory premises.	Total industrial effluent generation after expansion will not exceed the Consented Quantity and will be treated in the ETP. Industrial waste water will be treated in existing ETP. Urea plant process condensate will be treated in a deep hydrolyser followed by striping. Ammonia plant process condensate will be stripped with steam and treated condensate will be recycled / reused in the process in Water treatment plant. Cooling tower blow down & Regeneration effluent will be treated in the ETP. Treated effluent will be monitored for ammonical nitrogen, Nitrate, Fluoride, pH etc and will be recycled and reused. The treated effluent after maximum recycle will be disposed off through marine outfall (MOF) system as per the norms stipulated by the MPCB/CPCB. Sewage is treated in existing STP (Domestic Sewage Plant) and treated water is recycled /reused within factory premises for gardening.

xii	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 for flow, and relevant pollutants (i.e. pH, ammonical nitrogen, Nitrate nitrogen etc) shall be provided with high level alarm system.	All the effluents after treatment are routed to a properly lined guard ponds (Balancing ponds) for equalization and homogenization. In the Balancing ponds monitoring system of Flow, pH, Ammonical Nitrogen is provided.
xiii	Regular monitoring of ground water by installing peizometric 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 is regularly carried out around the Balancing pond and nearby villages. Soil monitoring & Sludge disposal sites are regularly monitored.
xiv	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 waste water shall be confirm CPCB standards	The storm water or garland drain will be provided all around the project site to prevent runoff of any chemicals containing waste into the nearby water bodies. Effluent will be properly treated and treated waste water will conform to CPCB standards.
xv.	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.	For new project, company will obtain authorization / Consent to Establish & Consent to Operate from MPCB for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, handling and Trans boundary Movement) Rules, 2008. Control Measures are taken for fire fighting facilities in case of emergency.
xvi.	Spent catalysts and used oil shall be sold to authorized recycler / re-processors only.	Spent catalysts and used oil are regularly sold to authorized / approved recycler / re-processors only.
xvii.	The company shall strictly comply with the rules and guidelines under manufacture, Storage and Import of Hazardous chemicals (MSIHC) Rules. 1989 as amend time to time. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA). 1989	The company is regularly obtaining certificate of storage for Hazardous chemicals from Chief Controller of Explosives wherever applicable. The company is complying with the rules and guidelines under manufacture, Storage and Import of Hazardous chemicals (MSIHC) Rules. 1989.
xviii	Remote operated valve placed on NH3 line to avoid leakage / equipment check shall be performed to ensure that remote	Remote operated valve placed on NH3 line is checked for leakages from time to time and it is always ensured that it is

	operated valve (ROV) is all time is functional.	functional.
xix	The company shall strictly follow all the recommendations mentioned in the charter on corporate Responsibility for Environmental Protection (CREP)	The company is strictly following all the recommendations mentioned in the charter on Corporate Responsibility for Environmental Protection (CREP).
xx	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.	The arrangement is already made for protection of possible fire Hazards during manufacturing process in material handling area. Fire fighting system will be as per the OISD 117 norms.
xxi	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of the Employees and contractor workers is done on a regular basis and records are maintained as per the Factories Act.
xxii	Green belt shall be developed in 33 % of the plant area. Selection of plant species shall be as per the CPCB guidelines.	Green belt is already developed in 33 % of the plant area. Selection of plant species are as per the CPCB guidelines.
xxiii	Provision shall be made for the housing for the construction labor 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, crèche 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.	Provision will be made for the constructing houses for labor at nearby site of the project with all necessary infrastructure and facilities. The temporary housing will be made and will be removed after the completion of the project. Due care will be taken so that there will not be any adverse impact on the surrounding environment.

GENERAL CONDITIONS :

Sr. No.	CONDITIONS	COMPLIANCE
i)	The project authorities shall strictly adhere to the stipulations made by the MPCB.	Agreed to comply.
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.	Environment Clearance is obtained for proposed Installation of Gas Turbine Generator and Heat Recovery Generators from Ministry of Environment Forest & Climate Change, Govt. of India on 10th February 2016. No expansion at the site will be carried out without prior approval of MOEF and the same will be maintained in future. In case of any deviations or alterations in the project proposal, a fresh reference will be made to the Ministry to assess the adequacy of conditions with additionally required environmental protection measures. Agreed to Comply.
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 is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	The locations of ambient air quality monitoring stations are decided as per the Dispersion Modeling Study and recommendations of Indian Meteorological Division & IIT Mumbai & in consultation with State Pollution Control Board (SPCB). Two stations are installed in the downwind direction. Four Ambient Air Monitoring stations to monitor the ambient air quality for SO2, NOx, NH3 PM- 10, PM -2.5, Ozone, CO are already installed at the existing site for the present large scale operations. Besides that, ambient air monitoring is carried out at 7 villages.
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)	The overall noise levels in and around the plant area are kept within the standards by providing noise control measures on all sources of noise generation as enclosed in Annexure-VI The same shall also be followed for Expansion project.

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 for the process activities of the project to conserve fresh water	The company is maintaining Pond of very large size area for rainwater harvesting. Storm water drains are routed properly to recharge the ground water and same will be used to conserve fresh water.
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 regularly imparted to all employees on safety and health. Pre-employment and routine periodical medical examinations & training for all employees & contractor workers is undertaken on regular basis. Employees are trained for handling of chemicals.
vii	Usage of Personnel protection Equipments (PPEs) by all employees / workers shall be ensured	Usage of Personnel protection Equipments (PPEs) by all employees / workers is ensured.
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	The company is complying with all the environmental protection measures and safeguards as proposed in the documents submitted to the Ministry. All the recommendations made in the EIA / EMP in respect of environmental management, risk mitigation measures relating to the project will be implemented
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.	The company has undertaken all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities are already undertaken by involving local villages and administration. The unit has undertaken measures for CSR activities like farmers training institute, agriculture research center, greenbelt development, mangrove development, community welfare schemes, awareness training program for nearby villages.
x	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	The company has already undertaken eco-developmental measures including community welfare measures like farmers training for advanced agriculture techniques, awareness training program in school of nearby villages & agriculture research center etc. for the overall improvement of the environment.
xi	A separate Environment management cell equipped with full fledge laboratory facilities shall be set up to carry out the Environmental	A separate Environment management cell equipped with full fledge laboratory facilities is already set up to carry out the Environmental Management and Monitoring liquid effluent parameters.

	Management and Monitoring functions	
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	Company will allocate sufficient funds toward capital cost and recurring cost respectively to implement the conditions stipulated by MOEF & State Govt. for all the stipulated conditions. The funds earmarked for environment management / pollution control measures will not be diverted for any other purpose.
xiii	A copy of clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban local body and the local NGO, if any, from who suggestions / representations, if any, were received while processing the proposal.	A copy of clearance letter is already sent to all concerned.
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.	The six monthly project compliance reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data will be sent to respective Regional Office of MoEF, the respective Zonal office of CPCB. A copy of Environmental clearance and six monthly compliance status report is 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 Environmental (Protection) Rules, 1986, as amended subsequently, shall 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	The environmental statement for the financial year 2015-16 in Form-V is submitted on line to State Pollution control Board as prescribed under the Environmental (Protection) Rules, 1986. The status of compliance of environmental clearance conditions is being sent to respective Regional Offices of MoEF.

	of MoEF by e-mail.	
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 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.	We have given press advertisement within seven days from the date of issue of the clearance letter, in three local newspapers which are widely circulated in the region out of which one is in the vernacular language of the locality .
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.	No activity has been started till date. The planned zero date of the Project is not yet finalized.

Annexure-IA

RASHTRIYA CHEMICALS AND FERTILIZERS LTD.

THAL UNIT

STEAM GENERATION PLANT

April-2017 to September -2017

Sr. No.	MONTH	PARAMETERS	FIRST SAMPLE	SECOND SAMPLE
1	**APRIL**	**TPM (mg / m^3** **SO_2 (mg / m^3)** **SO_2 (PPM)** **NOx (PPM)**	**29.43** **10.68** **4.08** **28.2**	**28.46** **11.26** **4.30** **29.1**
2	**MAY**	**TPM (mg / m^3** **SO_2 (mg / m^3)** **SO_2 (PPM)** **NOx (PPM)**	**28.73** **11.26** **4.26** **28.9**	**29.32** **11.39** **4.35** **27.4**
3	**JUNE**	**TPM (mg / m^3** **SO_2 (mg / m^3)** **SO_2 (PPM)** **NOx (PPM)**	**26.75** **11.81** **4.5** **28.3**	**28.2** **11.47** **4.38** **29.6**
4	**JULY**	**TPM (mg / m^3** **SO_2 (mg / m^3)** **SO_2 (PPM)** **NOx (PPM)**	**27.5** **11.12** **4.25** **28.1**	**26.7** **11.06** **4.22** **29.3**
5	**AUGUST**	**TPM (mg / m^3** **SO_2 (mg / m^3)** **SO_2 (PPM)** **NOx (PPM)**	**27.1** **11.13** **4.23** **28.2**	**26.2** **9.99** **4.41** **29.1**
6	**SEPTEMBER**	**TPM (mg / m^3** **SO_2 (mg / m^3)** **SO_2 (PPM)**	**26.4** **10.34** **4.17**	**25.1** **10.3** **3.9**

		NOx (PPM)	**27.3**	**26.8**

Annexure-IB

RASHTRIYA CHEMICALS AND FERTILIZERS LTD.

THAL UNIT

AMMONIA PLANT

April-2017 to September -2017

SR. No.	MONTH	PARAMETERS	AUXILIARY BOILER				REFORMER STACK			
			First Sample		Second Sample		First Sample		Second Sample	
			Line - I	Line -II	Line - I	Line-II	Line - I	Line-II	Line - I	Line-II
1	**April**	**TPM (mg / m^3)**	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
		SO_2 (mg / m^3)	3.2	3.5	3.5	4.2	4.7	4.4	4.7	4.2
		NOx (mg / m^3)	37.45	38.67	36.83	39.42	36.8	39.4	38.7	39.6
2	**May**	**TPM (mg / m^3)**	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
		SO_2 (mg / m^3)	3.3	3.6	3.2	3.5	4.5	4.2	4.3	4.6
		NOx (mg / m^3)	35.14	38.58	33.74	36.2	37.2	39.5	35.2	37.1
3	**JUNE**	**TPM (mg / m^3)**	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
		SO_2 (mg / m^3)	3.7	3.4	3.5	3.7	4.1	4.4	4.5	4.7
		NOx (mg / m^3)	35.17	34.87	31.25	36.82	37.8	36.8	33.8	36.3
4	**JULY**	**TPM (mg / m^3)**	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
		SO_2 (mg / m^3)	3.6	3.4	3.7	3.6	4.3	4.8	4.5	4.7
		NOx (mg / m^3)	33.91	35.73	35.18	34.13	35.1	37.8	33.7	36.2
5	**AUGUST**	**TPM (mg / m^3)**	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
		SO_2 (mg / m^3)	3.5	3.3	4.3	4.6	3.6	3.4	4.1	3.9
		NOx (mg / m^3)	37.23	35.18	34.2	35.6	37.91	36.15	32.9	31.7
6	**SEPTEMBER**	**TPM (mg / m^3)**	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
		SO_2 (mg / m^3)	3.7	3.6	3.9	3.7	4.2	4.0	4.3	4.1
		NOx (mg / m^3)	36.29	37.74	38.7	36.2	30.71	32.03	31.65	30.92

Annexure-IC

RASHTRIYA CHEMICALS AND FERTILIZERS LTD.

THAL UNIT

UREA PLANT

April-2017 to September -2017

Sr. No.	MONTH	PARAMETERS	Prilling Tower					
			First Sample			Second Sample		
			11	21	31	11	21	31
1	**APRIL**	**TPM (mg / m^3)**	16.8	17.9	18.6	16.3	17.5	17.9
		TPM (PPM)	14.16	15.09	15.51	14.2	14.75	15.09
		NH_3 (ppm)	39.4	40.6	41.9	40.7	42.1	40.6
2	**MAY**	**TPM (mg / m^3)**	16.9	17.8	19.3	17.2	17.6	18.5
		TPM (PPM)	14.25	15.01	16.27	14.5	14.84	15.6
		NH_3 (ppm)	40.3	43.7	42.5	39.5	42.3	42.1
3	**JUNE**	**TPM (mg / m^3)**	18.1	17.9	18.6	17.8	17.3	18.1
		TPM (PPM)	15.26	15.09	15.68	15.0	14.58	15.26
		NH_3 (ppm)	40.7	41.6	43.9	37.2	40.6	43.4
4	**JULY**	**TPM (mg / m^3)**	17.9	18.14	17.45	17.3	17.7	16.3
		TPM (PPM)	15.17	15.29	14.71	14.58	14.92	13.74
		NH_3 (ppm)	38.5	39.1	42.8	37.2	37.4	40.6
5	**AUGUST**	**TPM (mg / m^3)**	17.2	17.2	17.0	15.5	16.1	15.3
		TPM (PPM)	14.5	14.57	14.3	13.0	13.5	12.8
		NH_3 (ppm)	38.9	37.4	41.9	36.4	37.1	39.7
6	**SEPTEMBER**	**TPM (mg / m^3)**	14.7	15.19	14.93	15.16	15.3	14.25
		TPM (PPM)	12.39	12.80	12.58	12.78	12.96	12.01
		NH_3 (ppm)	37.2	40.9	36.8	39.6	37.2	37.5

Annexure-II

RASHTRIYA CHEMICALS AND FERTILIZERS LTD.
THAL UNIT
AMBIENT AIR DATA
April-2017 to September -2017

MONTH	**SO_2**	**AMMONIA**	**NO_X**	**PM – 10**	**P M – 2.5**
APRIL	26.3	74.7	45.2	59.4	31.8
MAY	27.3	76.7	42.4	55.3	29.5
JUNE	25.4	82.4	41.7	63.2	32.3
JULY	22.4	79.3	38.4	58.7	31.9
AUGUST	19.8	82.3	35.9	54.3	28.5
SEPTEMBER	21.4	80.5	31.4	52.4	24.8
N.A.A.Q. STANDARDS μgm / m^3	**80**	**400**	**80**	**100**	**60**

* VALUES FOR SO2, NH3, NOX, SPM, PM-10, PM-2.5 ARE IN μ gm / m^3

Annexure-III

RASHTRIYA CHEMICALS AND FERTILIZERS LTD.
THAL UNIT

WATER CONSUMPTION
April-2017 to September -2017

	Industrial	Domestic	Total
April – 17	11,83,424	1,65,076	13,48,500
May-17	12,49,664	1,67,636	14,17,300
June – 17	11,96,184	1,57,516	13,53,700
July – 17	12,66,972	1,64,228	14,31,200
Aug-17	12,45,363	1,57,537	14,04,900
Sep-17	11,98,724	1,54,776	13,53,500

WATER CONSUMPTION IN m^3

Annexure-IV

RASHTRIYA CHEMICALS AND FERTILIZERS LTD.
THAL UNIT
LIQUID EFFLUENT DISCHARGE TO SEA AFTER TREATMENT

April-2017 to September -2017

PARAMETERS / MONTH	APR	MAY	JUN	JUL	AUG	SEP	MPCB LIMIT
pH	7.8	7.5	7.7	8.1	7.6	7.9	6.5 – 8.5
CYANIDE	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	0.2
FREE AMMONIA	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	4.0
MMONI N ITROGEN	36.4	33.5	32.4	35.20	31.6	34.2	50
T.K.N.	52.3	53.2	46.7	49.30	47.2	48.7	100
NITRATE NITROGEN	3.2	2.8	3.1	3.2	2.9	3.1	10
TOTAL SUS. SOLIDS	60.4	59.8	56.8	61.20	58.6	57.8	100
OIL AND GREASE	3.4	3.1	3.3	3.1	3.0	3.4	Less than 10
DISSOLVED OXYGEN	5.9	6.1	6.0	5.9	5.9	6.1	More Than 5.0
C.O.D.	79.4	69.3	83.4	78.60	82.4	79.6	250
B.O.D.	27.6	26.3	28.2	26.40	27.2	26.2	100
CADMIUM	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	0.2
ARSENIC.	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	0.2
CR+6	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	0.1
PHOSPHATE	3.0	2.3	2.8	3.0	3.3	2.8	5.0
TEMPERATURE	28	28.0	27	26	26	26	-

* All figures are in mg/ltr. Except Ph & Temp.

Annexure- V

RASHTRIYA CHEMICALS AND FERTILIZERS LTD.
THAL UNIT

R.C.F. THAL *VILLAGE AIR QUALITY DATA-*
April-2017 to September -2017

MONTH	Parameters	Agarsure	Kihim	Vaishet	Lonare	Satirge	Tudal	Alibaug
APRIL 2017	PM10	67.1	57.7	55.7	68.6	60.7	52.4	50.0
	PM 2.5	33.1	31.7	29.4	29.4	30.6	28.5	30.5
	SO2	10.6	12.6	16.1	14.0	13.3	14.1	13.0
	NOx	30.7	29.7	28.9	29.5	32.3	25.8	29.0
	NH3	34.3	34.4	37.1	33.7	31.8	35.4	32.3
May 2017	PM10	71.4	52.3	52.1	60.3	67.8	52.8	52.4
	PM 2.5	33.6	30.7	22.5	29.3	30.9	28.7	28.6
	SO2	15.1	12.4	12.5	13.5	15.3	12.8	11.8
	NOx	28.9	26.0	29.1	26.4	30.6	28.6	27.5
	NH3	36.2	31.5	35.2	31.9	30.8	32.6	32.3
June 2017	PM10	73.83	55.8	55.76	64.53	69.43	56.46	53.7
	PM 2.5	35.7	34.2	24.7	32.4	32.9	26.5	26.2
	SO2	13.99	13.69	13.26	14.48	11.81	13.04	13.08
	NOx	30.82	26.15	29.94	29.19	29.25	27.22	26.91
	NH3	33.03	34.27	32.94	33.96	32.14	35.31	32.36
July 2017	PM10	62.76	49.2	44.46	59.1	52.89	40.4	44.56
	PM 2.5	28.7	22.1	26.5	29.7	30.7	21.9	20.5
	SO2	10.85	10.32	10.01	11.55	10.94	9.49	7.87
	NOx	25.9	23.6	22.96	19.71	23.17	21.94	23.58
	NH3	29.21	25.40	28.95	26.35	27.76	29.3	24.93
August 2017	PM10	61.76	55.16	45.53	51.26	53.56	52.96	42.16
	PM 2.5	26.3	24.9	25.4	26.5	28.5	27.3	26.7
	SO2	11.08	12.2	11.53	11.75	11.49	12.38	8.6
	NOx	27.24	24.58	22.41	25.56	23.66	25.64	21.96
	NH3	32.61	25.64	25.42	25.14	34.34	26.88	27.44
September 2017	PM10	53.6	46.4	38.9	49.3	43.47	44.9	38.77
	PM 2.5	22.5	21.6	20.3	24.6	26.3	26.5	23.2
	SO2	9.48	9.96	7.53	10.05	10.28	8.43	10.52
	NOx	26.65	29.72	24.9	23.36	25.04	31.25	23.11
	NH3	31.37	31.7	29.01	28.49	30.70	32.83	32.85

Annexure-VI

RASHTRIYA CHEMICALS AND FERTILIZERS LTD.
THAL UNIT

Ambient Noise Level data at the Boundary and the 7 nearby Villages.
April-2017 to September -2017

Station	Apr	May	June	July	Aug	Sep
Near Material Gate	66.5	66.87	64.3	66.03	67.73	66.53
Near Lonare Village	60.7	61.9	59.8	60.5	60.9	61.73
RCF Main Gate	66.2	65.23	63.2	64.33	65.03	65.2
Vaishet Village	61.6	61.7	62.3	61.36	60.09	61.77
Tudal Village	60.9	61.2	59.8	61.03	60.96	60.6
Navgaon Village (Rail gate)	61.0	61.8	60.4	61.3	62.73	60.57
Boris Village	61.4	61.9	60.7	60.36	62.13	61.37

** All figures are in db

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