

TFL/Talcher/ADGF/12/2022/716

07.12.2022

**The Additional Director General of Forests (C),
Ministry of Environment, Forests and Climate Change,
Regional Office (EZ), A/3 Chandrasekharpur,
Bhubaneswar- 751023
Odisha.**

Sub: Submission of six-monthly compliance report pertaining to M/S Talcher Fertilizers Ltd. For setting up Ammonia & Urea Fertilizer Plant at Village-Vikrampur, Tahsil- Talcher, District- Angul, Odisha.

Ref: File No. J-11011/231/2013-IA-II(I), MoEF&CC (IA-II Section)
Environmental Clearance dated 09.02.2018

Dear Sir,

Reference to the above subject, we have obtained Environmental Clearance on 09.02.2018 vide reference cited. To comply certain conditions of the said EC, we herewith submitting half yearly compliance report of the conditions imposed in the said EC issued for the said project for the period of May, 2022 to October,2022.

We request you to acknowledge the receipt of the same.

Thanking you,

Yours faithfully,

Soumya Kanti Kar

(Soumya Kanti Kar)

Manager,

Talcher Fertilizers Limited

Soumyakanti Kar

Manager (PE)

TFL

Copy to:

1. Member Secretary, Odisha Pollution Control Board, Parivesh Bhawan, A/118, Nilakantha Nagar, Unit - VII, Bhubaneswar - 12 (Odisha).
2. Zonal Office, CPCB, Kolkata.
3. Regional Office, OSPCB, Angul S-3/3, Industrial Estate, Angul-759143, Odisha.

SIX-MONTHS COMPLIANCE STATUS REPORT

May 2022 – October 2022

TALCHER FERTILIZERS LIMITED VILLAGE - VIKRAMPUR THESIL - TALCHER DISTRICT - ANGUL, ODISHA

ABC Techno Labs India Private Limited

An ISO : 9001:2008, ISO:14001:2004 & OHSAS:18001:2007 Certified Company

(Accredited by NABL, NABET, MoEF)



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INTRIDUCTION

1.0 About the Industry

In 1971, The Fertilizer Corporation of India Ltd. (FCIL), set up Talcher Unit over an area of 902 acre in the district of Angul, Odisha which is located about 126 km away from Bhubaneswar to produce urea using coal as feed stock. Licensor for the Coal gasification was M/s Krupp Koppers, Germany and for Ammonia and Urea units Ammonia synthesis, M/s Tecnimont, Italy.

Commercial Production of Ammonia and Urea commenced on 01.11.1980 with Ammonia and Urea production capacity of 900 and 1500 Tons per day respectively. However due to frequent power restriction, obsolete and mismatch of technology and precarious steam balance the plant could not be sustained. The Board for Industrial and Financial Reconstruction (BIFR) declared the FCIL sick in 1992 and in 2002 Government of India initiated actions to close the company.

Due to shortage of domestic Urea and availability of large land banks, infrastructure and tied-up rail, water & electricity in the units of FCIL, GoI in the year 2007 decided to revive all units of FCIL. Government of India approved Policy for new Investments in the Urea Sector in September 2008 and constituted Empowered Committee of Secretaries (ECOS) in October 2008 with the mandate to evaluate all options of revival of closed units of FCIL/HFCL and to make suitable recommendations for consideration of the Government. In August, 2011, the Cabinet Committee on Economic Affairs (CCEA) had approved the Draft Rehabilitation Scheme (DRS) for revival of all the Units of FCIL and HFCL. DRS envisaged revival of Talcher Unit by the consortium of M/s. Rashtriya Chemical & Fertilizers Limited (RCF), M/s Coal India Limited (CIL) and M/s GAIL (India) Ltd. (GAIL).

Project - Talcher Fertilizers Limited, Talcher, Odisha.**EC Letter No. - F. No. J-11011/231/2013-IA-II(I) dated 9th February, 2018****A. STATUTORY COMPLIANCE:**

S.No.	Conditions	Compliance
1	In view of the base line air quality data for PM ₁₀ already exceeding the prescribed standards, one more season data to be collected to confirm the consistency of readings/values, and for suggesting mitigating measures accordingly.	<ul style="list-style-type: none"> Monitoring of PM₁₀ has been completed for the period November 2021 to April 2022 Copy of the same is enclosed in this report.
2	The project proponent shall, take stringent mitigating measures to minimize the incremental concentration of air pollutants (mainly PM ₁₀ & PM _{2.5}) to the extent possible due to the proposed industrial operations.	As the monitored results are well within the specified limits no additional measures are proposed to be installed.
3	The project proponent shall develop local air quality management plan in consultation with SPCB and implemented to achieve desired standards.	Compliance Assured
4	The incremental ground level concentrations (GLCs) for PM ₁₀ , PM _{2.5} , SO ₂ & NO ₂ due to the increased vehicular and other allied / developmental activities, shall be analyzed and reported for actual impact of the project, besides remedial measures.	Compliance Assured <ul style="list-style-type: none"> To check the incremental increase in air pollutants during construction phase, two monitoring stations were selected in the project site. The data is included in this report. As indicated in EIA the major transport of raw material will be by conveyor and hence no impact on GLC due to transport is expected.
5	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Consent to Establish (CTE) is obtained from the Office of the State Pollution Control Board, Odisha, vide No. 12951/IND-II-NOC-6253 dated: 30.11.2019. The same enclosed as Annexure - II.
6	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.	Feasibility study for ZLD will be undertaken and appropriate treatment/recycling method will be selected to achieve ZLD.
7	Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	Compliance Assured. It will be obtained in consent to operate.
8	National Emission Standards for Organic Chemicals Manufacturing industry issued by the Ministry vide G,S,R, 608(E) dated 21st July, 2010 and amended from time to time shall be followed.	Compliance Assured.
9	To control source and the fugitive emissions, suitable pollution control devices shall be	Plants will be designed with state of Art technologies with inbuilt pollution control

	installed to meet the prescribed norms and/or the NMQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	systems so that the prescribe norms and fugitive emissions will be under control.
10	Total freshwater requirement shall not exceed 49200 cum/day to be met from surface water from Brahmini River. Prior permission in this regard shall be obtained from the concerned regulatory authority.	<ul style="list-style-type: none"> • Fresh Water source will be received from the stipulated source. • And all necessary permissions will be ensured prior to installation of the project.
11	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Compliance Assured.
12	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc., Flame arresters shall be provided on tank farm, and solvent transfer through pumps.	Compliance Assured.
13	ETP sludge, process inorganic & evaporation salt, if any, shall be disposed of to the TSDF.	Compliance Assured.
14	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and imports 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.	Compliance Assured.
15	The company shall undertake waste minimization measures as below: <ul style="list-style-type: none"> a) Metering and control of quantities of active ingredients to minimize waste. b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. c) Use of automated filling to minimize spillage d) Use of Close Feed system into batch reactors. e) Venting equipment through vapour recovery system. f) Use of high-pressure hoses for equipment. 	<p>Compliance Assured.</p> <p>Compliance Assured.</p> <p>Compliance Assured.</p> <p>Compliance Assured.</p> <p>Compliance Assured.</p> <p>Compliance Assured.</p>
16	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along roadsides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	The project activities will be implemented in existing site of TFL with lot of greenery and the guideline of 33% area under greenbelt out of total project area will be achieved.
17	All the commitment made regarding issues raised during the Public Hearing/consultation meeting held on 30h August ,2017 shall be satisfactorily implemented.	CSR dept. will keep aside a sum for CSR activities for project to meet public hearing requirement to the practical extent possible for an industrial unit.
18	At least 2.5% of the total project cost shall be allocated for Enterprise Social Commitment based on Public Hearing issues and item-wise	Compliance Assured.

	details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	
19	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines, Acoustic enclosure shall be provided to DG set for controlling the noise pollution,	Compliance Assured.
20	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Compliance Assured.
21	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	HR and OHC Dept. will conduct regular health checkups and records for the same will be maintained as per the Factories Act.
22	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.	Compliance Assured.

COMPLIANCE OF OTHER GENERIC CONDITIONS

1	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board, Central Pollution Control Board, State Government and any other statutory authority.	Compliance Assured.
2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Compliance Assured.
3	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is Installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Compliance Assured.
4	The National Ambient Air Quality Emission Standards issued by the Ministry vide G,S.R.	Compliance Assured.

	No. 826(E) dated 16th November, 2009 shall be followed,	
5	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 (daytime) and 70 dBA (night time).	Compliance Assured.
6	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.	Compliance Assured.
7	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.	
8	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	Compliance Assured.
9	The company shall undertake all relevant measures for improving the socioeconomic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.	CSR activities shall be undertaken by involving local and other stake holders.
10	The company shall undertake eco developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Greenery development in the area will be undertaken. Activities shall be undertaken for Developmental measures for welfare of overall environment.
11	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management pollution control measures shall not be diverted for any other purpose,	Compliance Assured.
12	A copy of the clearance letter shall be sent by the project proponent to concerned	Complied.

	Panchayat, Zilla Parishad /Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.	
13	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF & CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six- monthly compliance status report shall be posted on the website of the company.	Compliance assured.
14	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail,	This will be complied after commencement of commercial production.
15	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local, newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Compliance done. Communicated on In local Odiya newspaper and English newspaper. i) Oriya on date 16.02.2018 in Samaj (Angul Edition) ii) English on date 15.02.2018 in New Indian Express (Bhubaneswar Edition) Copy of the same has been submitted already.
16	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.	This will be complied with. Presently, the site preparation work is under progress.

Annexure 1

Environmental Clearance Letter

Annexure - I

F. No. J-11011/231/2013-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA- II Section)

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi -3

Dated: 9th February, 2018

To

M/s Talcher Fertilizers Ltd
Village Vikrampur, Tehsil Talcher
District Angul (Odisha)

Sub: Setting up Ammonia & Urea Fertilizer Unit at Village Vikrampur, Tehsil Talcher, District Angul (Odisha) by M/s Talcher Fertilizers Ltd - Environmental Clearance -reg.

Sir,

This has reference to your proposal No. IA/OR/IND2/58560/2013 dated 11th October, 2017, submitting the EIA/EMP report with public consultation details on the above subject matter.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for setting up ammonia & urea fertilizer unit based on coal gasification for production of 1.27 MMTPA of neem coated urea (end product) by M/s Talcher Fertilizers Ltd at Village Vikrampur, Tehsil Talcher, District Angul (Odisha).

3. The total land area of the project is 570 acre, out of which green belt will be developed in 180 acre. The cost of the project is Rs.10741.05 Crores. The project will provide employment to 1500 people during construction phase.

4. The proposed product/unit and capacity are as under:

S.No	Product/Unit	Capacity
1	Ammonia	2200 MTPD
2	Urea (Neem coated)	3850 MTPD
3	Coal Gasification Plant	Synthesis Gas: 242978 Nm ³ /hr

5. Total water requirement for the project is 49,200 m³/day. The permission for drawal of surface water from Brahmini River has been obtained from the State Government of Odisha vide letter No. 1513/SF/59 dated 3rd November, 2009.

The power requirement of 72 MW will be met from the Captive Power Plant. The raw Material required for the project are Coal, Pet Coke and lime stone. During initial stages of operation of the plant, coal shall be supplied through Bhubaneswari Coal Mine of M/s Mahanadi Coalfields Ltd. Later, the project proponent shall develop the dedicated coal mine for the procurement of coal in the desired quantity.

6. The project/activity is covered under category A of item 5(a) 'Chemical fertilizers' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral Expert Appraisal Committee in the Ministry.

7. The terms of reference (ToR) for the project was initially granted on 26th November, 2013, and then extended up to 25th November, 2017. The ToR was transferred in the name of M/s Talcher Fertilizers Ltd from M/s Rashtriya Chemicals & Fertilizers Ltd, vide Ministry's letter dated 27th September, 2017. Public hearing was conducted by the State Pollution Control Board on 30th August, 2017.

8. The proposal for environmental clearance was considered by the EAC (Industry-2) in its meeting held on 12-13 October, 2017. The project proponent and the accredited consultant M/s Projects & Development India Ltd presented the EIA/EMP report. The committee found the EIA/EMP report satisfactory and recommended the proposal for environmental clearance with certain conditions.

9. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project 'Setting up Ammonia & Urea Fertilizer Unit for production of 1.27 MMTPA of Neem Coated Urea (end product)' by M/s Talcher Fertilizers Ltd at Village Vikrampur, Tehsil Talcher, District Angul (Odisha), under the provisions of EIA Notification, 2006 and the amendments made therein, subject to the compliance of terms and conditions, as under:-

- (i) In view of the base line air quality data for PM₁₀ already exceeding the prescribed standards, one more season data to be collected to confirm the consistency of readings/values, and for suggesting mitigating measures accordingly.
- (ii) The project proponent shall take stringent mitigating measures to minimize the incremental concentration of air pollutants (mainly PM₁₀ & PM_{2.5}) to the extent possible due to the proposed industrial operations.
- (iii) The project proponent shall develop local air quality management plan in consultation with SPCB and implemented to achieve desired standards.
- (iv) The incremental ground level concentrations (GLCs) for PM₁₀, PM_{2.5}, SO₂ & NO₂ due to the increased vehicular and other allied/developmental activities, shall be analysed and reported for actual impact of the project, besides remedial measures.
- (v) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (vi) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.
- (vii) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.
- (viii) National Emission Standards for Organic Chemicals Manufacturing Industry Issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.
- (ix) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- (x) Total fresh water requirement shall not exceed 49200 cum/day to be met from surface water from Brahmini River. Prior permission in this regard shall be obtained from the concerned regulatory authority.
- (xi) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- (xii) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.
- (xiii) ETP sludge, process inorganic & evaporation salt, if any, shall be disposed off to the TSDF.



- (xiv) 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.
 - (xv) The company shall undertake waste minimization measures as below:-
 - (a) Metering and control of quantities of active ingredients to minimize waste.
 - (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - (c) Use of automated filling to minimize spillage.
 - (d) Use of Close Feed system into batch reactors.
 - (e) Venting equipment through vapour recovery system.
 - (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
 - (xvi) The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
 - (xvii) All the commitment made regarding issues raised during the Public Hearing/consultation meeting held on 30th August, 2017 shall be satisfactorily implemented
 - (xviii) At least 2.5% of the total project cost shall be allocated for Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.
 - (xix) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
 - (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 norms.
 - (xxi) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
 - (xxii) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- 9.1.** The grant of environmental clearance is subject to compliance of other general conditions, as under:-
- (i) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board, Central Pollution Control Board, State Government and any other statutory authority.
 - (ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
 - (iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.



- (iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
- (v) 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).
- (vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- (vii) 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.
- (viii) The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (ix) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.
- (x) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- (xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- (xiv) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
- (xv) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://moef.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular



language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.

(xvi) 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.

10. The Ministry may revoke or suspend the clearance, at subsequent stages, if implementation of any of the above conditions is not satisfactory.

11. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

12. The above conditions will be enforced, inter alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


9/12/2018
(S. K. Srivastava)
Scientist E

Copy to:-

1. The Additional PCCF (C), MoEF&CC Regional Office (EZ), A/3, Chandrasekharpur, Bhubaneswar - 23 (Odisha)
2. The Secretary, Department of Forest and Environment, Government of Odisha, Bhubaneswar (Odisha)
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Odisha State Pollution Control Board, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII, Bhubaneswar -12 (Odisha)
5. Guard File/Monitoring File/Website/Record File


9/12/2018
(S. K. Srivastava)
Scientist E

Annexure II

Consent to Establish



Tel : 2564033/2563924
 EPABX : 2561909/2562847
 E-mail: paribesh1@ospcboard.org
 Web site : www.ospcboard.org

**OFFICE OF THE
 STATE POLLUTION CONTROL BOARD, ODISHA**

(Department of Forest & Environment, Govt. of Odisha)
 Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII
 Bhubaneswar – 751012

Through online/ By Speed Post

No. 12951 /IND-II-NOC-6253

Date 30.11.2019 /

OFFICE MEMORANDUM

In consideration of the application no. **2324926** received through online for obtaining Consent to Establish for **M/s Talcher Fertilizers Ltd. (TFL)**, the State Pollution Control Board is pleased to convey its Consent to Establish under Section 25 of Water (Prevention & Control of Pollution) Act, 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 for following production/unit capacity:

Sl. No.	Name of the facility	Capacity
1.	Ammonia	2200 MTPD
2.	Urea (Neem Coated)	3850 MTPD
3.	Coal Gasification Plant	Synthesis Gas: 242978 Nm ³ /hr

with project cost of ₹ 13,277.00 Crores over an area of 490.7 acres, At - Talcher, P.O. – Vikrampur (as per plot nos. & Khata nos. mentioned in Application Form) in the District of Angul with following conditions:

GENERAL CONDITIONS:

1. This Consent to Establish is valid for the raw materials, product, manufacturing process and capacity mentioned in the application form. This order is valid for five years. The proponent shall commence construction of the project within a period of five years from the date of issue of this order. If the proponent fails to do substantial physical progress of the project within five years then a renewal of this Consent to Establish shall be sought by the proponent.
2. The industry shall comply to the provisions of Environment Protection Act, 1986 and the rules made there under with their amendments from time to time such as the Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 as amended from time to time, Hazardous Chemical Rules, / Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 etc. and amendments there under. The industry shall also comply to the provisions of Public Liability Insurance Act, 1991, if applicable.
3. The Industry is to apply for grant of Consent to Operate under Section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 & Air (Prevention & Control of Pollution) Act, 1981 at least 3 (three) months before the commercial production and obtain Consent to Operate from this Board

4. **This Consent to Establish is subject to statutory and other clearances from Govt. of Odisha and / or Govt. of India as and when applicable.**

SPECIAL CONDITIONS:

A. GENERAL:

1. The proponent shall carryout construction activity of the proposed Fertilizer Plant as per Environmental Clearance granted by MoEF&CC, Govt. of India, vide No. J-11011/231/2013-IA-II (I), date 09.02.2018.
2. This Consent to Establish is granted for the capacity as mentioned above and any expansion in the capacity, change or modification in the process, addition, alternation any nature has to be undertaken with prior approval of the Board. For any change in the site or area, fresh Consent to Establish has to be obtained from the Board. The proponent shall carry out construction activity as per approved revised lay out map (**enclosed**). If the proponent wants to change the approved plant layout map, they can submit a modified plant layout map with adequate justification for such modification.
3. The proponent shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of Environment Impact Assessment (EIA) report and project report.
4. The proponent shall obtain permission from concerned authorities for drawal of surface water / ground water.
5. The proponent shall identify the old contaminated sites of old plant and shall remediate the same before start of construction of new plant facilities.
6. A relatively thick green coverage may be provided on the north-west and east sides of the plant keeping in view the high noise and dust level.
7. At least 5% of the total energy use (plant & colony) shall be from non-conventional sources.
8. Good housekeeping practices shall be followed to improve the work environment. All roads and shop floors shall be cleaned regularly.
9. The construction and demolition wastes to be generated from the proposed project shall be disposed of in accordance with the provision under "Construction & Demolition Wastes Management Rules 2016".
10. The proponent shall comply to the provisions of E-Waste (Management) Rules, 2016 and shall handover e-waste to authorized collection centers/ register dismantlers/ recyclers for proper disposal of e-waste.
11. All the plastic waste generated from industry during construction and commissioning shall be collected and sent for co-processed in a cement kiln.
12. Monitoring of stack emissions, fugitive emissions, trade effluent and noise level shall be done as per CPCB regulations.
13. The unit shall explore the transportation of raw materials and products through rail instead of trucks.

14. A green belt of adequate width and density preferably with local species along the periphery of the unit shall be raised so as to provide protection against particulates and noise. It must be ensured that at least 33% (163.9 acres) as proposed of the total land area shall be under permanent green cover, in such a manner that, atleast plantation shall be taken up at least in 20% of the total green belt area and progressively achieve 100% in a span of five years and under no circumstances this land earmarked for green belt shall be used for any other purpose.
15. The civil construction shall be carried out with the fly ash bricks. If the fly ash bricks are not available locally the civil construction may carried out with other bricks with prior intimation to the concerned Regional Office of SPC Board. A statement indicating use of fly ash bricks during construction period shall be submitted to the Board quarterly for record.
16. The proponent should shall full-fledged environmental management cell and the head of environmental management cell shall report directly to the unit Chief Administrator (say M.D.). A detailed proposal to this effect is to be submitted.
17. The land on which the unit is proposed to be established shall be converted to industrial use Kisam by the competent authority. The copy of said land conversion document shall be submitted to the Board along with Consent to Operate application.
18. The Board may impose further conditions or modify the conditions stipulated in this order during installation and /or at the time of obtaining Consent to Operate and may revoke this clearance in case the stipulated conditions are not implemented and /or any information suppressed in the application form.
19. The industry shall apply for grant of Consent to Operate under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 & under section 21 of Air (Prevention & Control of Pollution) Act, 1981 at least 3 (three) months before the commercial production and obtain Consent to Operate from this Board. No production activity shall commence prior to installation of all pollution control measures.
20. The unit shall abide by E (P) Act, 1986 and Rules framed thereunder.
21. Depending on the environmental condition, stricter standards may be imposed for the effluent or restriction for discharge may be made for which adequate facilities from the beginning shall be made to meet such situation in future

B. WATER POLLUTION:

22. The unit shall install online Continuous Effluent Quality Monitoring System (CEQMS) at the outlet of Effluent Treatment Plant (ETP) for online real time data transmission through GPRS system to SPCB RTDAS server and also upload data for use by CPCB.
23. The domestic wastewater generated from the industry shall be treated in sewage treatment plant to meet the following standards as notified by the MoEF&CC, Govt. of India vide G.S.R. 1265 (E), dated 13.10.2017. The treated water shall be reused for gardening and plantation. Under no circumstances there shall be any discharge of treated waste water to outside the factory premises.

Sl. No.	Parameters	Standards
1.	pH	6.5-9.0
2.	BOD(mg/l)	30
3.	TSS(mg/l)	<100
4.	Fecal Coliform (MPN/100ml)	< 1000

24. Use of treated as well as recycled water and rain water harvesting shall be widely adopted for conservation of water.
25. Process effluent / any wastewater shall not be allowed to mix with storm water. The proponent shall provide separate drain for storm water and process water.
26. The waste water generated in DM plant and Ammonia Plant during normal operation shall be treated in the In-plant Treatment Systems so that the same is recycled / neutralized in the plant and treated effluent shall be utilized for green belt and floor washings.
27. The proponent shall provide garland drains around coal storage area and all the stock pile area. followed by series of settling tanks to retain the solids, if any, in order to prevent damage to the surrounding land and water bodies.
28. The proponent shall construct, a full-fledged ETP of capacity 900 KLD for treatment of waste water generated from plant and treated water shall be completely reused. The proponent shall adopt Zero Liquid Discharge (ZLD) concept and under no circumstances the waste water shall be discharged to outside the factory premises.
29. The treated effluent shall be recycled and reused in the industry and/or used for water spraying or green belt development etc. The excess waste water shall be collected in Central Effluent Treatment Plant (CETP).
30. The treated waste water from the CETP shall be utilized after meeting the following standard.

Parameters	Limiting concentration in mg/l except for pH
pH	5.5 to 9.0
Suspended solids	100
BOD, 3days, 27°C	30
COD	250
Oil & Grease	10
Ammonical Nitrogen as N	50
Cyanide as CN	0.2
Phenolic compound	1.0
Copper (Total)	3.0
Iron (Total)	3.0
Free available Chlorine	0.5
Zinc	5.0
Chromium (Total)	0.2
Phosphate	5.0

31. Storm water shall not be allowed to mix with effluent, scrubber water and / or floor washing and shall be channelized through separate drains as per natural gradient, passing through High Density Polyethylene (HDPE) lined pits, each having holding capacity of 10 minutes (hourly average) of rainfall.

32. Rain water harvesting structure shall be developed inside the plant premises and maximum effort shall be made to reuse harvested rain water, with a definite plan and programme to reduce the drawl of fresh water from water bodies.

C. AIR POLLUTION:

33. Necessary preventive measures shall be taken during construction phase so that the ambient air quality including noise shall conform to National ambient air quality standards and standards for noise in industrial area as per **Annexure-I**. Ambient air quality at the boundary of the plant premises shall meet the prescribed standards of the Board as per **Annexure - II**. The ambient air quality monitoring report shall be submitted to the Board every month.
34. The unit shall install online Continuous Stack Emission Monitoring Systems (CSEMS) at all the stacks of the plant for online real time monitoring for PM, SO₂ and Flouride and data transmission through GPRS system to SPCB RTDAS server and also upload data for use by CPCB.
35. The unit shall install online Continuous Ambient Air Quality Monitoring Systems (CAAQMS) within and outside the plant premises atleast at four locations for online real time monitoring and data transmission through GPRS system to SPCB RTDAS server and also upload data for use by CPCB.
36. Ambient Air Quality shall be maintained as per National Ambient Air Quality standard prescribed for industrial and mixed used area under E(P) Act, 1986.
37. Air compressor and DG set shall be acoustically designed and shall be housed in appropriate acoustic enclosures so that the noise level outside it shall conform to the prescribed norms.
38. The height of the stack attached to the D.G sets shall conform to the following:
$$H = h + 0.2\sqrt{KVA}$$
 (Where, h = Height of the building where it is installed in meter KVA = Capacity of D.G Set and H = Height of the stack in meter above ground level)
39. The proponent shall install inbuilt system for removal of H₂S and Carbonyl Sulphide & Sulphur shall be recovered in the form of elemental Sulphur.
40. Wet limestone shall be used for flue gas desulphurization for 95% control of SO₂. Low NO_x burners and selective catalyst reduction (SCR) shall be provided for high efficiency NO_x control. Electrostatic Precipitator shall be installed for control of Particulate Matters.
41. Raw materials and products shall be stored in covered sheds and adequate dust suppression measures shall be taken to control fugitive emission from handling of raw materials and products.
42. Working area including the roads surrounding the plant shall be asphalted or concreted & water sprinkling system shall be installed to suppress the fugitive dust emission.
43. Both dust suppression (dry fog) and extraction (bag filter) system shall be provided at all dust generating source such as crushing, screening & material transfer points etc. to control fugitive emission.

44. The unit shall provide adequate, both dust suppression (dry fog) and extraction (bag filter) system at all potential dust generating sources including Coal Handling Plant so that particulate matter emission shall not exceed 100 mg/Nm^3 . Stack height for de-dusting unit shall be calculated as per the formula $H = 74Q^{0.27}$, where H and Q are stack height in meter and Particulate Matter (PM) emission in ton/hr respectively.
45. The proponent shall install Pneumatic dust handling system in all Bag Filter hoppers with common silo and telescopic chute arrangement. Mechanical operated system for timely collection and removal of the flue dust generated in air pollution control device shall be installed.
46. Air pollution control devices shall be maintained properly. Fabric bags and cages in bag house shall be checked regularly and replaced whenever required. Adequate availability of spares shall be ensured for immediate replacement.
47. All Pollution control equipment may be provided with separate electricity meter and totalizer for continuous recording of power consumption. The amperage of the ID fan may also be recorded continuously. Non-functioning of Pollution control equipment should be recorded in the same logbook along with reasons for not running the Pollution Control Equipment
48. The unit shall provide porthole and platform at suitable location with safe approach to conduct emission and monitoring at all the stacks.

D. SOLID AND HAZARDOUS WASTE:

49. The industry shall develop hazardous waste disposal site as per guideline of Central Pollution Control Board, Delhi for disposal of Hazardous Waste.
50. Sludge from raw Water Treatment Plant (WTP) shall be dewatered (centrifuged) with Decanter and the solid cake shall be used as manure after proper conditioning. Sludge from ETP shall be dewatered through suitable processes (decanter / Pressure Belt Filter). Solid cake of ETP shall be used either as manure or disposed off along with bottom ash.
51. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc., Flame arresters shall be provided on tank farm, and solvent transfer shall be one through pumps.
52. All the Hazardous Wastes generated from the unit shall be stored under covered shed on concrete platforms and drain arrangement for collection of spillage in any before going for final disposal to the Hazardous Waste disposal site/ through CPCB/SPCB authorised vendors.
53. Coal tar generated if any from Coal Gasification plant shall be stored in an impervious pit and disposed off through authorized operators.
54. The proponent shall establish Mechanized Waste Converter having polycrack method and other similar method for processing of Municipal Solid Waste generated from the unit, under covered shed to produce valuable products like oil, water, gas, carbon, metal, glass etc.

55. The other solid waste generated from the unit shall be suitably disposed off without causing any public nuisance or environmental contamination.
56. A Solid Waste Management Cell shall be created under Environmental Management Cell and complete utilization of all solid waste shall be envisaged and implemented in a sustained manner. All the available research and development options shall be scouted in this regard. The exact utilization of solid waste shall be finalized in consultation with the State Pollution Control Board.
57. The industry shall obtain authorization for management of Hazardous Waste as per provisions of Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 as amended from time to time.
58. Municipal Solid Waste generated from the unit shall be disposed off as per the Solid Waste Management Rules, 2016 and amendment thereafter.

Encl: Approved plant layout map and Annexures

30/11/19
MEMBER SECRETARY

To

**The CEO,
M/s Talcher Fertilizers Limited (TFL),
2nd floor PARC Building,
GAIL Training Institute,
Noida Sector 16A, District - Gautam Budha Nagar,
Tehsil: Noida.**

Memo No. 12952 /Date 30.11.2019 /

Copy forwarded to:

1. The Collector & District Magistrate, Angul.
2. The District Industries Centre, Angul.
3. The Director, Factories & Boiler, Bhubaneswar.
4. The Regional Officer, SPC Board, Angul.
5. Consent to Operate Section, SPC Board, BBSR.
6. The DFO, Angul.
7. Hazardous Waste Management Section SPC Board, BBSR.
8. Copy to Guard file.

30/11/19
CHIEF ENV. ENGINEER

alc

(Page 7 of 7)

टिप्पण :

1. जब कभी और जहां भी किसी अपने-अपने प्रवर्ग के लिये दो क्रमिक प्रदूषण दिनों पर मापित दूष्य, ऊपर विनिर्दिष्ट सीमा से अधिक हो तो इसे नियमित या निरंतर प्रदूषण तथा अतिरिक्त अन्वेषण करवाने के लिये पर्याप्त कारण समझा जायेगा।"

[फा. सं. क्यू-15017/43/2007-सी.पी.डब्ल्यू.]

रजनीश दुबे, संयुक्त सचिव

टिप्पण : मूल नियम भारत के राजपत्र में असाधारण सं.का.आ.844 (अ), तारीख 19 नवम्बर 1986 द्वारा प्रकाशित किये गये थे और पश्चातकी संशोधन सं.का.आ.433 (अ), तारीख 18 अप्रैल 1987, सा.क.नि. 176 (अ), तारीख 2 जून 1998 और हाल में ही सा.क.नि. 97 (अ), तारीख 18 फरवरी 2009; सा.क.नि. 149 (अ), तारीख 4 मार्च, 2009; सा.क.नि. 512 (अ), तारीख 9 जुलाई, 2009; सा.क.नि. 543 (अ), तारीख 22 जुलाई, 2009; सा.क.नि. 596 (अ), तारीख 21 अगस्त, 2009; और सा.क.नि. 974 (अ) तारीख, 04 नवम्बर 2009 द्वारा प्रकाशित किये गए।

MINISTRY OF ENVIRONMENT AND FORESTS

NOTIFICATION

New Delhi, the 16th November, 2009

G.S.R. 826(E).— In exercise of the powers conferred by section 6 and section 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:—

1. (1) These rules may be called the Environment (Protection) Seventh Amendment Rules, 2009.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Environment (Protection) Rules, 1986 (hereinafter referred to as the said rules), in rule 3, in sub-rule (3B), for the words, brackets, figures and letters, "in columns (3) to (5) of Schedule VII", the words, brackets, figures and letters "in columns (4) and (5) of Schedule VII" shall be substituted.

3. For Schedule VII to the said rules and entries relating thereto, the following Schedule and entries shall be substituted, namely:—

"[SCHEDULE VII]

[See rule 3(3B)]

NATIONAL AMBIENT AIR QUALITY STANDARDS

S. No.	Pollutant	Time Weighted Average	Concentration in Ambient Air		
			Industrial, Residential, Rural and Other Area	Ecologically Sensitive Area (notified by Central Government)	Methods of Measurement
(1)	(2)	(3)	(4)	(5)	(6)
1	Sulphur Dioxide (SO ₂), µg/m ³	Annual* 24 hours**	50 80	20 80	- Improved West and Gieseke - Ultraviolet fluorescence
2	Nitrogen Dioxide (NO ₂), µg/m ³	Annual* 24 hours**	40 80	30 80	- Modified Jacob & Hochheiser (Na-Arsenite) - Chemiluminescence
3	Particulate Matter (size less than 10µm) or PM ₁₀ , µg/m ³	Annual* 24 hours**	60 100	60 100	- Gravimetric - TOEM - Beta attenuation
4	Particulate Matter (size less than 2.5µm) or PM _{2.5} , µg/m ³	Annual* 24 hours**	40 60	40 60	- Gravimetric - TOEM - Beta attenuation

(1)	(2)	(3)	(4)	(5)	(6)
5	Ozone (O ₃) µg/m ³	8 hours** 1 hour**	100 180	100 180	- UV photometric - Chemiluminescence - Chemical Method
6	Lead (Pb) µg/m ³	Annual* 24 hours**	0.50 1.0	0.50 1.0	- AAS /ICP method after sampling on EPM 2000 or equivalent filter paper - ED-XRF using Teflon filter
7	Carbon Monoxide(CO) mg/m ³	8 hours** 1 hour**	02 04	02 04	- Non Dispersive Infra Red (NDIR) spectroscopy
8	Ammonia(NH ₃) µg/m ³	Annual* 24 hours**	100 400	100 400	- Chemiluminescence - Indophenol blue method
9	Benzene (C ₆ H ₆) µg/m ³	Annual*	05	05	- Gas chromatography based continuous analyzer - Adsorption and Desorption followed by GC analysis
10	Benzo(a)Pyrene (BaP) - particulate phase only, ng/m ³	Annual*	01	01	- Solvent extraction followed by HPLC/GC analysis
11	Arsenic (As), ng/m ³	Annual*	06	06	- AAS /ICP method after sampling on EPM 2000 or equivalent filter paper
12	Nickel (Ni), ng/m ³	Annual*	20	20	- AAS /ICP method after sampling on EPM 2000 or equivalent filter paper

* Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

** 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

Note.— Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.”

[F. No. Q-15017/43/2007-CPW]

RAJNEESH DURE, Jt. Secy.

Note.— The principal rules were published in the Gazette of India, Extraordinary vide number S.O.844(E), dated the 19th November, 1986, and subsequently amended vide numbers S.O. 433(E), dated the 18th April, 1987; G.S.R. 176 (E), dated the 2nd April 1996; and were recently amended vide numbers G.S.R. 97(E), dated the 18th February, 2009; G.S.R. 149(E), dated the 4th March, 2009; G.S.R. 512(E), dated the 9th July, 2009; G.S.R. 543(E), dated the 22nd July, 2009; G.S.R. 595(E), dated the 21st August, 2009; and G.S.R. 794(E), dated the 4th November, 2009.

The Environment (Protection) Rules, 1986

[SCHEDULE III]
(See rule 3)

AMBIENT AIR QUALITY STANDARDS IN RESPECT OF NOISE

Area Code	Category of Area	Limits in dB(A) Leq.	
		Day Time	Night Time
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

Note

1. Day time is reckoned in between 6 a.m. and 9 p.m.
2. Night time is reckoned in between 9 p.m. and 6 a.m.
3. Silence zone is defined as areas upto 100 meters around such premises as hospitals, educational institutions and courts. The Silence Zones are to be declared by the Competent Authority.

Use of vehicular horns, loudspeakers and bursting of crackers shall be banned in these zones.

4. Mixed categories of areas should be declared as one of the four above mentioned categories by the Competent Authority and the corresponding standards shall apply.

Schedule III inserted vide GSR 1063(E), dt. 26.12.89, published in the Gazette No. 643, dt. 26.12.89.

Baseline Monitoring Report Results (May 2022 – October 2022)

1.0 Air Quality Monitoring Report (May 2022 – October 2022)

The prime objective of ambient air quality monitoring is to evaluate the existing air quality of the proposed project area. This will also be useful for assessing the conformity to standards of the ambient air quality during the operations of proposed project. This section describes the selection of sampling locations, methodology adopted for sampling, analytical techniques and frequency of sampling Meteorological conditions prevailing within study area.

1.1 Sampling and Analytical Techniques

The sampling and analytical techniques used for the monitoring of Ambient Air quality is given in **Table -1**.

TABLE - 1: TECHNIQUES USED FOR AMBIENT AIR QUALITY MONITORING

S.No.	Parameter	Technique	Technical Protocol	Detectable Limit
1	Particulate Matter size less than 10 µm (PM10), µg/m ³	Gravimetric method	IS 5182 Part-23 : 2006 (Reaff. 2017)	5 µg/m ³
2	Particulate Matter size less than 2.5 µm (PM2.5), µg/m ³	Gravimetric method	EPA- 40 Appendix L To Part 50	5 µg/m ³
3	Sulphur Dioxide (SO ₂), µg/m ³	Improved West and Gaeke	IS 5182: Part 2:2001 (Reaff. 2017)	5 µg/m ³
4	Nitrogen Dioxide (NO ₂), µg/m ³	Modified Jacob & Hochheiser	IS 5182: Part 6:2006 (Reaff. 2017)	5 µg/m ³
5	Ammonia (NH ₃), µg/m ³	GC FID	ABCTL/SOP/A05 Is. No.1 02-01-2015	0.1 µg/m ³
6	VOCs	GC FID	U.S. EPA Method TO17: 1999	0.1 µg/m ³
7	Methane Hydrocarbons (MHC)	HC Analyzer for Spot Concentration	ABCTL/SOP/A15 Is. No.1 02-01-2015	0.1 µg/m ³
8	Non-Methane Hydrocarbons (NMHC)	HC Analyzer for Spot Concentration	ABCTL/SOP/A15 Is. No.1 02-01-2015	0.1 µg/m ³

1.2 Selection of Sampling Locations:

The baseline status of the ambient air quality has been assessed through a scientifically designed ambient air quality monitoring network. The design of monitoring network in the air quality surveillance program has been based on the following considerations:

- Topography / Terrain of the study area
 - History of wind pattern
 - Human Settlements
 - Health status
 - Accessibility of monitoring site
 - Resource Availability
 - Representativeness of the region for establishing baseline status
 - Representativeness with respect to likely impact areas
- **Air Quality monitoring has been conducted at six sampling locations during season (May 2022 – October 2022). The location of ambient air sampling stations has been presented below in Table 2 & Table 3.**

Table 2: Details of sampling locations

S.No.	Location Name	With respect to project site	
		Direction	Distancw
1	TFL Admin Building	-	-
2	H.B.Colony	ENE	1.2 km
3	Karnapur Village	W	4.5 km
4	TFL Guest House	-	-
5	Balanda Village	NW	2.5km
6	Kukudanga Village	SW	2.5km

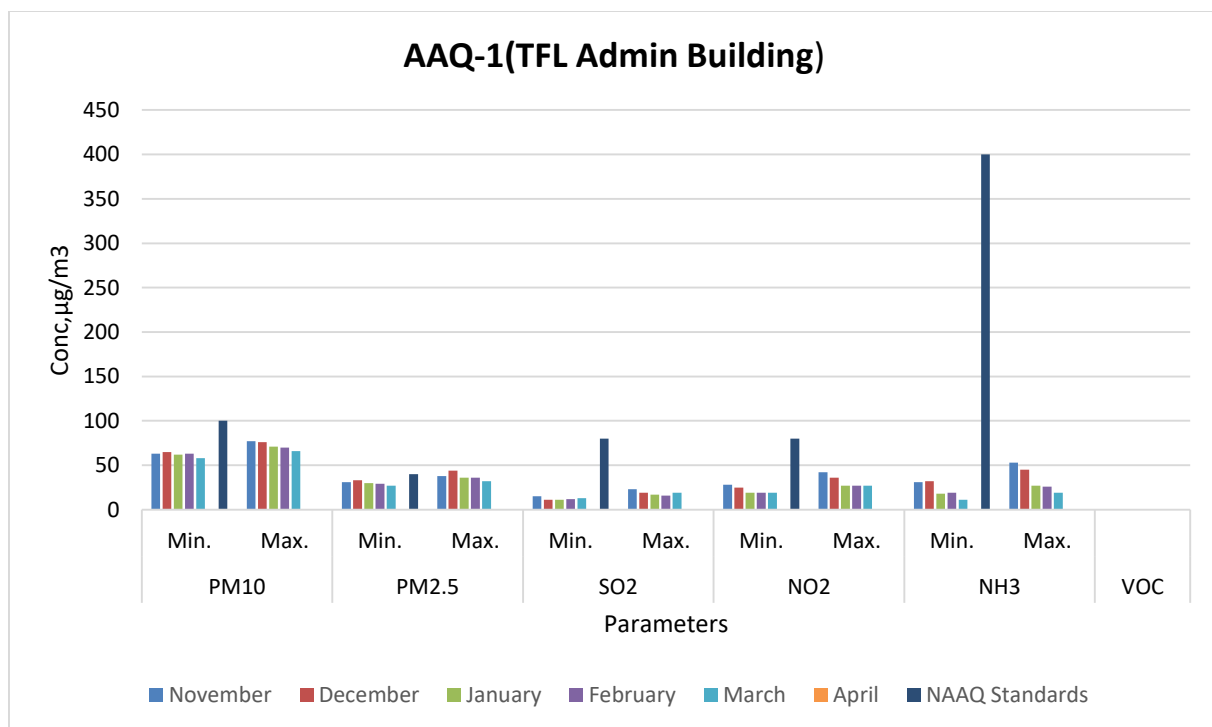
Table 3: Details of Air Quality Monitoring Locations (November 2021 to April 2022)

S.No.	Sample Code	Sampling Locations	Geographical Locations
1	TFL/A1	TFL Admin Building	20°54'42.8"N 85°09'38.4"E
2	TFL/A2	H.B.Colony	20°54'19.3"N 85°10'20.4"E
3	TFL/A3	Karnapur Village	20°54'26.4"N 85°07'06.1"E
4	TFL/A4	TFL Guest House	20°54'14.8"N 85°09'56.9"E
5	TFL/A5	Balanda Village	20°55'31.0"N 85°09'26.8"E
6	TFL/A6	Kukudanga Village	20°53'23.3"N 85°08'50.8"E

Ambient Air Quality Monitoring Results

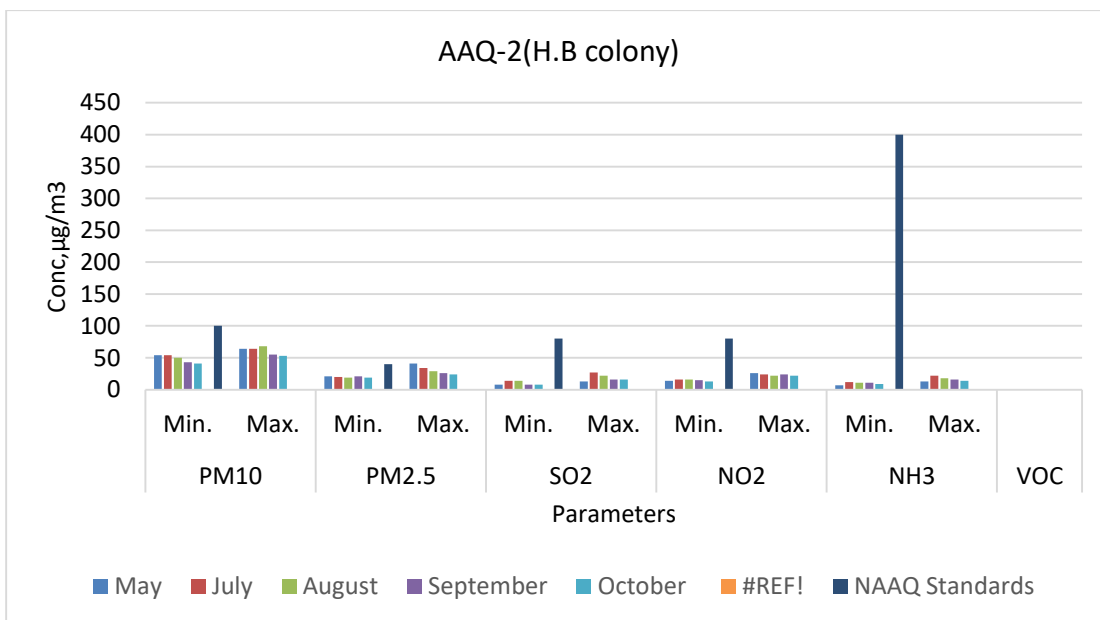
AAQ 1 – TFL Admin Building

Months	PM10		PM2.5		SO2		NO2		NH3		VOC
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
May	55	69	22	39	9	15	18	27	8	14	0
July	51	63	22	41	17	24	17	24	15	22	0
August	56	69	26	34	13	22	16	27	13	22	0
September	47	57	23	28	9	15	16	22	11	18	0
October	46	57	22	28	10	16	16	22	11	17	0
NAAQ Standards	100		40		80		80		400		



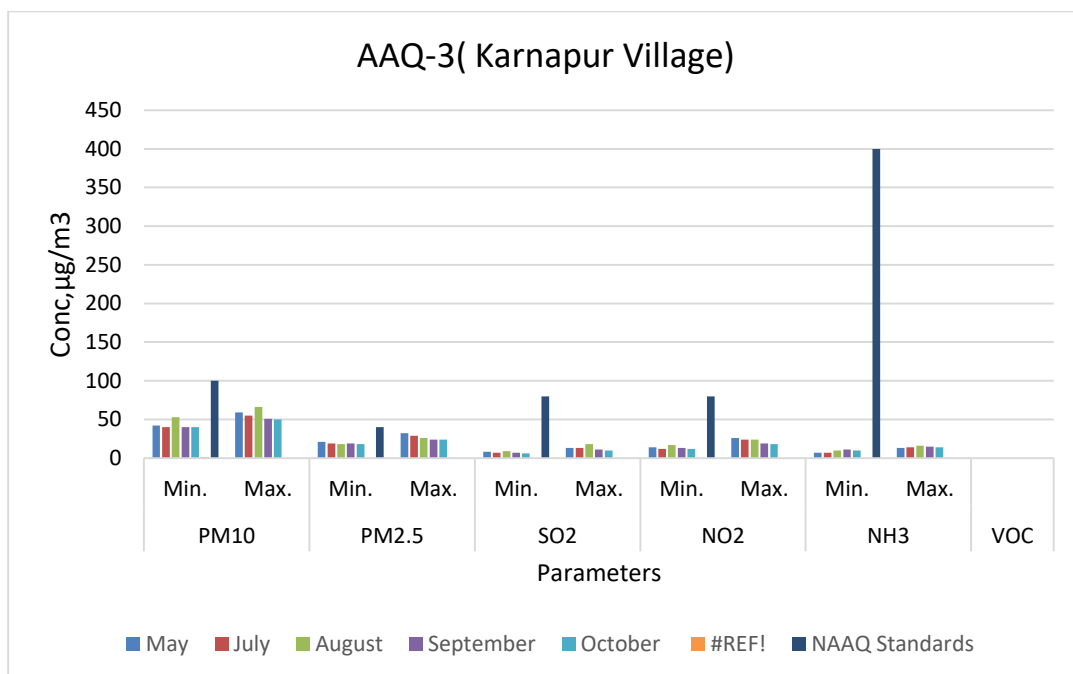
AAQ 2 – H.B. Colony

Months	PM10		PM2.5		SO2		NO2		NH3		VOC
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
May	54	64	21	41	8	13	14	26	7	13	0
July	54	64	20	34	14	27	16	24	12	22	0
August	50	68	19	29	14	22	16	22	11	18	0
September	43	55	21	26	8	16	15	24	11	16	0
October	41	53	19	24	8	16	13	22	9	14	0
NAAQ Standards	100		40		80		80		400		



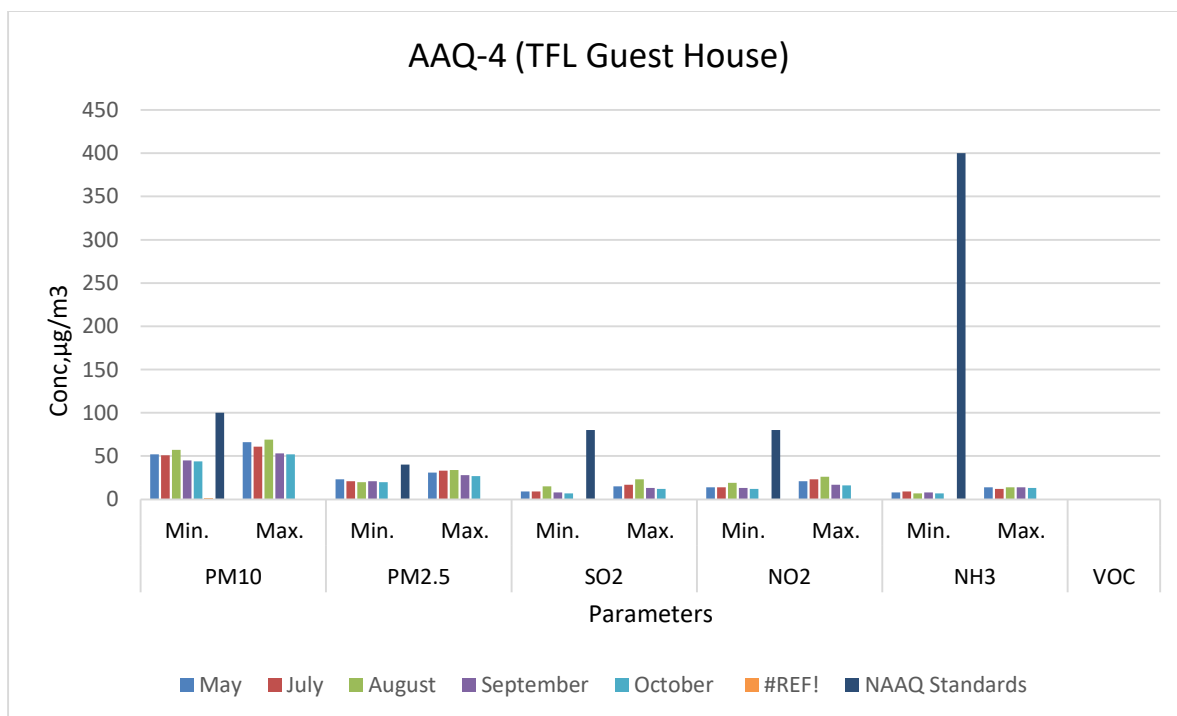
AAQ 3– Village Karnapur

Months	PM10		PM2.5		SO2		NO2		NH3		VOC
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
May	42	59	21	32	8	13	14	26	7	13	0
July	40	55	19	29	7	13	12	24	7	14	0
August	53	66	18	26	9	18	17	24	10	16	0
September	40	51	19	24	7	11	13	19	11	15	0
October	40	50	18	24	6	10	12	18	10	14	0
NAAQ Standards	100		40		80		80		400		



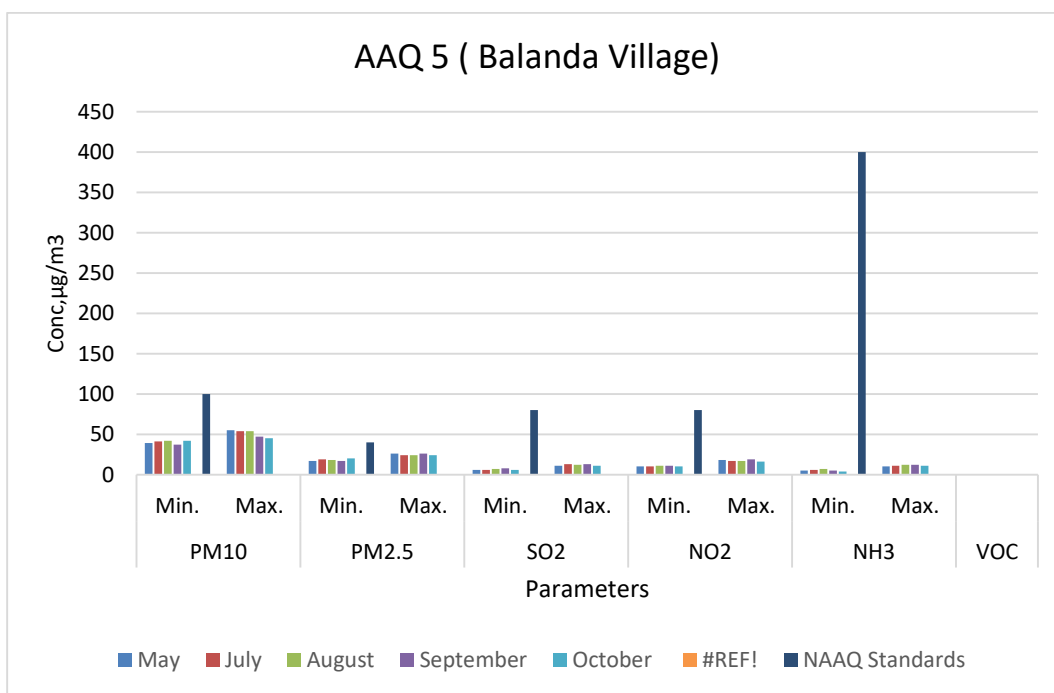
AAQ 4 - TFL Guest House

Months	PM10		PM2.5		SO2		NO2		NH3		VOC
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
May	52	66	23	31	9	15	14	21	8	14	0
July	51	61	21	33	9	17	14	23	9	12	0
August	57	69	20	34	15	23	19	26	7	14	0
September	45	53	21	28	8	13	13	17	8	14	0
October	44	52	20	27	7	12	12	16	7	13	0
NAAQ Standards	100		40		80		80		400		



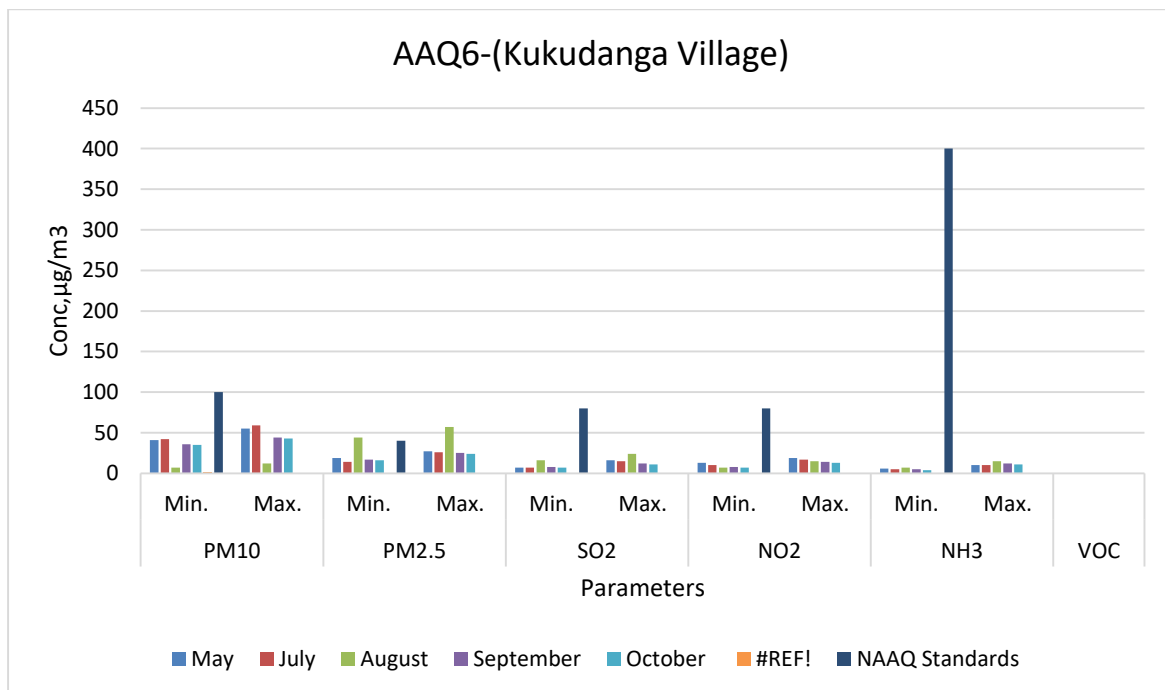
AAQ 5 - Balanda village

Months	PM10		PM2.5		SO2		NO2		NH3		VOC
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
May	39	55	17	26	6	11	10	18	5	10	0
July	41	54	19	24	6	13	10	17	6	11	0
August	42	54	18	24	7	12	11	17	7	12	0
September	37	47	17	26	8	13	11	19	5	12	0
October	42	45	20	24	6	11	10	16	4	11	0
NAAQ Standards	100		40		80		80		400		



AAQ 6 - Kukudanga village

Months	PM10		PM2.5		SO2		NO2		NH3		VOC
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
May	41	55	19	27	7	16	13	19	6	10	0
July	42	59	14	26	7	15	10	17	5	10	0
August	7	12	44	57	16	24	7	15	7	15	0
September	36	44	17	25	8	12	8	14	5	12	0
October	35	43	16	24	7	11	7	13	4	11	0
NAAQ Standards	100		40		80		80		400		



AAQ Observations:

PM₁₀: The maximum and minimum concentrations for PM₁₀ were recorded as 66 µg/m³ at TFL Admin Building and 7 µg/m³ at Kukudanga village.

PM_{2.5}: The maximum and minimum concentrations for PM_{2.5} were recorded as 57 µg/m³ at Kukudanga village and 14 µg/m³ at Kukudanga village.

SO₂: The maximum and minimum concentrations for SO₂ were recorded as 27.0 /m³ at H.B.Colony and 6.0 µg/m³ at Karnapur village.

NO₂: The maximum and minimum concentrations for NO₂ were recorded as 27.0 µg/m³ at TFL Admin Building and 7.0 µg/m³ at Kukudanga village.

NH₃: The maximum and minimum concentrations for NH₃ were recorded as 22.0 µg/m³ at Balanda Building & Kukudanga village and 4.0 µg/m³ at TFL Admin Building & H. B. Colony.

The overall concentrations of PM₁₀, PM_{2.5}, SO₂, NO₂ and NH₃ were observed to be well within the standards prescribed by Central Pollution Control Board (CPCB) for industrial, Rural, Residential and other area.

Noise Level Monitoring Results

N1 – TFL Admin Building

Date of Sampling	Lmax dB(A)	Lmin dB(A)	L day dB(A)	L Night dB(A)	Leq dB(A)
May	73.2	49.9	51.6 – 65.6	50.8 – 59.0	51.3 – 64.0
July	74.4	56.9	51.3 – 64.3	49.3 – 55.6	52.6 – 62.8
August	74.2	49.2	55.4 – 64.2	51.2 – 54.3	59.6 – 61.9
September	67.2	44.4	53.1 – 58.3	45.4 – 48.9	51.9 – 56.7
October	66.2	42.1	52.2 – 57.2	43.6 – 47.8	50.7 – 52.8

Observation:

The Noise level monitoring samplings in the TFL Admin Building are taken for 8 days for each month (May '22 to October '22). The above table shows the minimum to maximum range of sample results. Comparing to all the months, July month shows the highest level of 74.4 dB(A) for Lmax, October month shows the minimum level of 42.1dB(A) for L min, and the minimum to maximum range of L day, L night and Leq are shown in the above table.

N2 – H.B.Colony

Date of Sampling	Lmax dB(A)	Lmin dB(A)	L day dB(A)	L Night dB(A)	Leq dB(A)
May	53.6	32.1	48.2 – 54.2	38.6 – 44.1	47.2 – 52.5
July	51.2	33.2	43.2 – 51.2	37.6 – 43.1	43.2 – 49.5
August	72.3	43.1	53.8 – 63.2	41.6 – 46.6	52.2 – 60.0
September	73.2	42.9	53.4 – 58.4	45.8 – 47.1	53.1 – 56.8
October	72.3	41.8	52.3 – 57.3	39.5 – 47.2	51.8 – 55.7

Observation:

The Noise level monitoring samplings in the H.B.Colony are taken for 8 days for each month (May '22 to October '22). The above table shows the minimum to maximum range of sample results. Comparing to all the months, September month shows the highest level of 73.2 dB (A) for Lmax, May month shoes the minimum level of 32.1 dB(A) for L min, and the minimum to maximum range of L day, L night and Leq are shown in the above table.

N3 – Karnapur Village

Date of Sampling	Lmax dB(A)	Lmin dB(A)	L day dB(A)	L Night dB(A)	Leq dB(A)
May	52.6	36.1	39.9 – 51.6	37.5 – 44.5	42.0 – 49.9
July	51.6	37.8	37.9 – 47.6	35.5 – 47.2	37.3 – 46.0
August	73.5	42.0	53.6 – 65.2	42.5 – 49.6	55.0 – 61.0
September	51.2	32.6	49.7 – 54.1	41.4 – 46.2	48.6 – 52.5
October	58.5	31.5	48.6 – 53.3	40.3 – 45.1	47.5 – 51.7

Observation:

The Noise level monitoring samplings in the Karnapur Village are taken for 8 days for each month (May '22 to October '22). The above table shows the minimum to maximum range of sample results. Comparing to all the months, August month shows the highest level of 73.5 dB(A) for Lmax, October month shows the minimum level of 31.5 dB(A) for L min, and the minimum to maximum range of L day, L night and Leq are shown in the above table.

N4 – TFL Guest House

Date of Sampling	Lmax dB(A)	Lmin dB(A)	L day dB(A)	L Night dB(A)	Leq dB(A)
May	72.3	52.1	51.2 – 57.6	36.8 – 48.7	50.1 – 55.9
July	66.1	48.1	46.2 – 51.9	36.7 – 43.6	44.7 – 50.4
August	73.0	63.3	53.6 – 65.3	40.9 – 50.2	51.3 – 60.7
September	59.6	41.1	51.2 – 55.6	45.2 – 47.9	50.1 – 54.1
October	58.5	40.2	50.1 – 54.5	44.3 – 46.8	49.0 – 53.0

Observation:

The Noise level monitoring samplings in the TFL Guest House are taken for 8 days for each month (May '22 to October '22). The above table shows the minimum to maximum range of sample results. Comparing to all the months, August month shows the highest level of 73.0 dB(A) for Lmax, October month shows the minimum level of 40.2 dB(A) for L min, and the minimum to maximum range of L day, L night and Leq are shown in the above table.

N5 – Balanda Village

Date of Sampling	Lmax dB(A)	Lmin dB(A)	L day dB(A)	L Night dB(A)	Leq dB(A)
May	53.6	39.4	50.6 – 54.6	33.5 – 45.6	49.0 – 52.9
July	52.3	41.6	49.1 – 53.3	33.4 – 43.1	47.8 – 51.7
August	67.3	42.6	52.2 – 56.3	42.1 – 47.7	48.5 – 55.3
September	53.4	34.1	49.4 – 54.9	41.1 – 44.4	48.1 – 53.3
October	57.2	33.2	48.3 – 53.7	40.2 – 43.3	47.0 – 52.1

Observation:

The Noise level monitoring samplings in the Balanda Village are taken for 8 days for each month (May '22 to October '22). The above table shows the minimum to maximum range of sample results. Comparing to all the months, August month shows the highest level of 67.3 dB(A) for Lmax, October month shows the minimum level of 33.2 dB(A) for L min, and the minimum to maximum range of L day, L night and Leq are shown in the above table.

N6 – Kukudanga Village

Date of Sampling	Lmax dB(A)	Lmin dB(A)	L day dB(A)	L Night dB(A)	Leq dB(A)
May	66.2	41.6	50.2 – 56.3	41.7 – 46.5	49.3 – 54.8
July	63.4	41.6	49.2 – 53.3	39.6 – 45.5	48.2 – 51.9
August	73.2	43.8	50.2 – 59.4	42.8 – 47.5	49.0 – 60.0
September	56.6	33.3	49.9 – 53.2	41.3 – 44.8	48.7 – 51.7
October	56.6	32.2	48.8 – 53.2	40.2 – 43.7	48.8 – 51.7

Observation:

The Noise level monitoring samplings in the Kukudanga Village are taken for 8 days for each month (May '22 to October '22). The above table shows the minimum to maximum range of sample results. Comparing to all the months, August month shows the highest level of 73.2 dB (A) for Lmax, October month shows the minimum level of 32.2 dB(A) for L min, and the minimum to maximum range of L day, L night and Leq are shown in the above table.

The detailed sampling monitoring reports for Noise level for each month (May '22 to October '22) are all within the standard limits and it is enclosed as **Annexure - III**

Ground Water monitoring results:

The Ground Water (GW) level and condition is monitored in 3 different locations Tentulei Village (GW1), Balanda Village (GW2) and Kukudanga Village (GW3)) on 23.05.2022, 26.07.2022, 28.08.2022, 19.09.2022, 21.10.2022 for various parameters. From the report, it shows that the sample results for GW1, GW2 & GW3 are within the Acceptable Limits as per IS 10500:2012 and are in **Good** condition. The detailed report is enclosed as **Annexure - III**

Surface Water monitoring results:

The Surface Water (SW) level and condition is monitored in 3 different locations Pump House (SW1), River near Jatia Bridge (SW2) and River PTBS Thermal Area (SW3)) on 23.05.2022, 26.07.2022, 28.08.2022, 19.09.2022, 21.10.2022 for various parameters. From the report, it shows that the sample results for SW1, SW2 & SW3 are within the Acceptable Limits as per IS 10500:2012 and are in **Good** condition. The detailed report is enclosed as **Annexure - III**



ABC Techno Labs India Private Limited

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TC - 5770

ABC Techno Labs
Quality Uncompromised

(An ISO : 9001, ISO : 14001, ISO : 45001 & ISO : 22000 Certified Company)

Accredited by NABL, ISO/IEC 17025:2017, NABET / QCI, Approved by FSSAI Recognised by MoEF&CC, BIS, APEDA

TEST REPORT

ISSUED TO:

M/s Talcher Fertilizers Limited,
(FCIL, Talcher Unit), Technical Building (JV Site Office)
Post- Vikrampur, Dist- Angul (Odisha State)
PIN-759 106.

Report Number	: ABCTL/2022/10/N6
Sample Drawn by	: ABC Techno Labs India Private Limited
Sample Description	: Noise Level Monitoring
Location Sampling	: N6 - Kukudanga village
Date of Sampling	: 01-10-2022 to 27-10-2022
Report Date	: 10-11-2022

Page 1 of 1

Date of Sampling	Lmax dB(A)	Lmin dB(A)	L day dB(A)	L Night dB(A)	Leq dB(A)
01.10.2022	56.6	37.2	53.2	43.2	51.7
03.10.2022	50.5	35.2	50.5	43.7	49.2
07.10.2022	53.2	32.2	52.4	41.5	50.8
11.10.2022	53.1	34.8	51.1	40.2	49.5
14.10.2022	52.2	36.1	48.8	43.5	47.6
17.10.2022	51.3	37.3	50.2	42.6	48.8
21.10.2022	52.1	33.2	52.1	41.3	50.5
27.10.2022	53.2	35.8	51.3	42.1	49.8

Ambient Noise Standards Zone Classification	Lday dB(A)	Lnight dB(A)
Industrial Area	75	70
Commercial Area	65	55
Residential Area	55	45
Silence Zone	50	40

.....END OF REPORT.....



S. Dharani

S. Dharani
Quality Manager
Verified by

A. Robson Chinnadurai
A. Robson Chinnadurai
Technical Manager-Lab
Authorised Signatory

Terms and conditions :

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ISSUED TO:

TEST REPORT

M/s Talcher Fertilizers Limited,
(FCIL, Talcher Unit), Technical Building (JV Site Office)
Post- Vikrampur, Dist- Angul (Odisha State)
PIN-759 106

Report no	:	ABCTL/2022/03/SW2
Sample description	:	SW2- River Near Jatia Bridge
Date of report	:	30-09-2022

Page 2 of 2

S.No	Test Parameters	Test Methods	Unit	Results	Acceptable Limit as per IS 10500:2012
18	Sodium as Na	IS : 3025 Part 45-1993 (Reaff:2019)	mg/l	48	Not Specified
19	Potassium as K	IS : 3025 Part 45-1993 (Reaff:2019)	mg/l	1.8	Not Specified
20	Iron as Fe	IS 3025 (Part 53)-1987 (RA:2019)	mg/l	0.21	1
21	Manganese as Mn	APHA 23rd Edition -3111B	mg/l	BDL(< 0.01)	0.1
22	Total Chromium as Cr	IS 3025 (Part 65)-2022	mg/l	BDL(< 0.01)	0.05
23	Lead as Pb	IS 3025 (Part 65)-2022	mg/l	BDL(< 0.01)	0.01
24	Zinc as Zn	IS 3025 (Part 65)-2022	mg/l	0.10	5
25	Cadmium as Cd	IS 3025 (Part 65)-2022	mg/l	BDL(<0.003)	0.003
26	Copper as Cu	IS 3025 (Part 65)-2022	mg/l	BDL(< 0.01)	0.05
27	Nickel as Ni	IS 3025 (Part 65)-2022	mg/l	BDL(< 0.01)	0.02
28	Arsenic as As	IS 3025 (Part 65)-2022	mg/l	BDL(< 0.01)	0.01
29	Oil & Grease	IS:3025:Part39:1991(Reaff:2019)	mg/l	BDL(< 1)	Not Specified
Microbiology Parameter:					
30	Total Coliforms	IS 1622 -1981 RA 2019	MPN/100ml	>1600	-

Note: BDL – Below Detection Limit.

.....END OF REPORT.....



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Quality Manager

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Head - Microbiology

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ISSUED TO:

TEST REPORT

M/s Talcher Fertilizers Limited.,
(FCIL, Talcher Unit), Technical Building (JV Site Office)
Post- Vikrampur, Dist- Angul (Odisha State)
PIN-759 106

Sample Details:

Page 1 of 2

Report Number	ABCTL/2022/03/SW3	Sample Drawn By	Laboratory
Sample Description	Surface Water	Sampling Method	IS : 3025 - Part 1
Location Sampling	SW3 - River PTBS Thermal Area	Date of Receipt	21-09-2022
Sample Condition	Good	Analysis commenced on	22-09-2022
Date of Sampling	19-09-2022	Report Date	30-09-2022

S.No	Test Parameters	Test Methods	Unit	Results	Acceptable Limit as per IS 10500:2012
1	Colour	IS 3025 (Part 4)-1983(RA :2017)	Hazen	5	5
2	Turbidity	IS 3025 (Part 10)-1984(RA :2017)	NTU	2	1
3	pH at 25 °C	IS 3025 (Part 11)-1983(RA :2017)	-	7.51	6.5-8.5
4	Total dissolved solids	IS 3025 (Part 16)-1984 (RA: 2017)	mg/l	213	500
5	Total suspended Solids	IS : 3025 Part 17-1984 (Reaff: 2017)	mg/l	2	Not Specified
6	Temperature	APHA 23rd EDITION 2550 B	°C	26.1	Not Specified
7	Total Alkalinity as CaCO3	IS 3025 (Part 23)- 1986(RA:2019)	mg/l	78	200
8	Chloride as Cl-	IS 3025 (Part 32)-1988 (RA: 2019)	mg/l	59	250
9	Sulphate as SO4	APHA 23rd Edition -4500-SO42- E	mg/l	14	200
10	Nitrate as NO3	APHA 23rd Edition -4500- NO3- B	mg/l	3	45
11	Fluoride as F	APHA 23rd Edition -4500-F B&D	mg/l	0.11	1
12	Total Hardness as CaCO3	IS 3025 (Part 21)-2009(RA:2019)	mg/l	88	200
13	Calcium Hardness as Ca	IS 3025 (Part 40)-1991 (RA:2019)	mg/l	29	75
14	Magnesium Hardness as Mg	APHA 23rd Edition-3500 Mg B	mg/l	3.7	30
15	Dissolved Oxygen	IS:3025:Part-38:1989 (Reaff:2019)	mg/l	6.8	Not Specified
16	COD	IS:3025:Part-58:2006(Reaff:2017)	mg/l	12	Not Specified
17	BOD	IS:3025:Part-44:1993 (Reaff:2019)	mg/l	BDL(<2)	Not Specified

Contd.....



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Quality Manager




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ANNEXURE – IV

The project proponent shall inform the public that the project has been accorded Advertisement of environmental clearance by the Ministry has been advertised in two local newspapers in which one is the vernacular language of the locality concerned.



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on 15.02.2018



Feb.16-2018
Angul Edn.

ଠିକଣା: ଓଡ଼ିଶା, ଭୁବନେଶ୍ୱର, ଶ୍ରୀରାମପୁର ଧାଡ଼ି, '୧୫୩୭୭୭' ପାଖରେ

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