

Ref: PPGCL/ENV/FY23/057

Date: 27.05.2022

To,
Shri Pankaj Agrawal IFS
Deputy Director General of Forests (C),
Ministry of Environment, Forest and Climate Change
Regional Office (CZ),
Kendriya Bhawan, 5th Floor Sector "H", Aliganj
Lucknow – 226020

Subject: Half yearly report for the period October'21 to March'22 on compliance of the stipulated condition of Environment Clearance awarded by MoEF for 3 x 660 MW to M/s Prayagraj Power Generation Company Limited at Bara, Prayagraj.

Dear Sir,

We are enclosing here with the half yearly report for the period October'21 to March'22 on compliance of the stipulated condition of Environment Clearance granted by MoEF for 3 x 660 MW to M/s Prayagraj Power Generation Company Limited at Bara, Prayagraj.

This is for your kind information and record please.

Sincerely

For Prayagraj Power Generation Company Limited

K R Bairwa

Chief - O&M Services

Enclosure: Environment Clearance compliance with Annexures

Cc: i) In-charge,

CPCB, Zonal Office (North), Lucknow

ii) Member Secretary

UPPCB, Lucknow

iii) Regional Officer

UPPCB, Prayagraj

Prayagraj Power Generation Company Limited

Registered Office : Shatabdi Bhawan, B 12 & 13, Sector 4, Gautam Budh Nagar, Noida, Uttar Pradesh - 201301
Phone: + 91-120-6102000/6102208 CIN: U40101UP2007SGC032835

Plant Address : P.O. - Lohgara, Tehsil - Bara, Prayagraj (Allahabad), Uttar Pradesh - 212107
Phone: + 91-7525006400/ 8528846666, Web:-ppgcl.co.in, Email:-ppgcl@ppgcl.co.in

SIX MONTHLY COMPLIANCE STATUS OF
CONDITIONS STIPULATED IN
ENVIRONMENTAL CLEARANCE (EC)

OF

M/S PRAYAGRAJ POWER GENERATION COMPANY LIMITED
(3X660 MW)

FOR THE PERIOD October -2021 to March- 2022

Name of Project: 3x660MW THERMAL POWER PROJECT at BARA, Allahabad, (UP) of M/s Prayagraj Power Generation Co. Ltd (PPGCL)

Clearance letter No: J-13011/60/2008-1A.II (T) 08.09.2009 and Extension of validity letter No J-13011/60/2008 – I A.II (T) dated 23.03.2015

Period of Compliance Report: 1st October 2021 to 31st March 2022

S.No	<u>Stipulated Conditions</u>	<u>Compliance Status</u>
(i)	No additional land in excess of 1468 acres ha shall be acquired for any activity/facility of this project	Noted.
(ii)	A certificate from the Tehsildar for the land use of the project area with respect to single crop/double crop shall be furnished within 15 days from the date of the issue of this letter.	Complied. Required certificate for land use, issued by Tehsildar was submitted vide letter No. PPGCL/109 dated 22.8.2009.
(iii)	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.5% and 34% respectively at any given time.	The average ash percentage in coal for the period Oct 21 to March 22 is 33.55% and Sulphur content is within 0.37%.
(iv)	Two stacks (one bi-flue and one single flue) of 275 m height each shall be provided with continuous online monitoring equipments for SOx and NOx particulate matter. Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack may also be monitored on periodic basis.	Stack of 275 m height is provided with online continuous monitoring equipment in all three units for SOx, NOx, and particulate matter. Average exit velocity of flue gas from Unit I, II and III stack for the period from Oct 2021 to Mar 2022 is 24.4 m/s, 26.3 m/s and 23.8 m/s respectively. Mercury monitoring is also being carried out through third party. Stack monitoring report is attached as Annexure-I .
(v)	High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	Complied. High efficiency ESP has been installed and in continuous operation. Stack monitoring report is attached as Annexure-I.
(vi)	Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Complied. Dust extraction and dust suppression system has been installed. Also, the roads have been made pucca. Photographs are attached as Annexure-VII
(vii)	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. 100% fly ash utilization shall be ensured from 4 th year onwards. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. Mercury and other heavy metals (As, Hg, Cr, Pb, etc.) will be monitored in the bottom ash and also	RCC Silo's have been constructed for storage of dry fly ash from ESP hoppers. Fly ash utilization being done through cement manufacturers. Mercury and other heavy metals monitored in the bottom ash and from the effluents of

	in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	existing ash pond by third party is attached as Annexure II . Fly ash utilization in low lying area is permitted vide MoEF&CC OM dated 28 th August 2019.
(viii)	Ash pond shall be lined with HDPE lining. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.	Ash pond is lined with HDPE. Adequate safety measures have been adopted to protect the ash dyke from getting breached. However, after takeover of PPGCL by M/s Renascent Power Ventures on 4 th Dec 2019, we have carried out study for ash pond from reputed institution (IIT Kharagpur) and TCE. Recommendations of the study are being implemented.
(ix)	Closed cycle cooling system with natural draft cooling towers shall be provided. The effluents shall be treated as per the prescribed norms. COC of 5 shall be adopted.	Complied. Effluent is being treated and CoC maintained.
(x)	No ground water shall be extracted for the project work at any stage.	Water is being taken from Yamuna River through pipeline.
(xi)	The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon. Arrangements shall be made that effluents and storm water do not get mixed.	Being complied, the treated effluent is re-used within the plant.
(xii)	A sewage treatment plant shall be provided and the treated sewage shall be used for raising green belt/plantation.	Complied. The treated sewage water is being used for raising green belt / plantation.
(xiii)	Rain water harvesting should be adopted. Central Ground Water Authority/Board shall be consulted for finalization of appropriate rain water harvesting technology within a period of three months from the date of clearance and details shall be furnished.	Being complied. Central Ground Water Authority (CGWA), Allahabad Office has been consulted for appropriate rainwater harvesting system. The suggestion of Central Ground Water Authority (CGWA) regarding rainwater harvesting has already been submitted vide letter no PPGCL/BARA/MOEF/15/10/169 dated: 27.04.15 As advised by Central Ground Water Authority (CGWA), four nos. of Piezometers have been installed for ground water monitoring and water storage facilities have been created for rainwater storage. Two nos. of rainwater harvesting ponds have been developed and in the process of developing additional rainwater harvesting structures.

(xiv)	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yards, especially during summer season. Copy of these measures with full details along with location plant lay out shall be submitted to the Ministry as well as to the Regional Office of the Ministry at Lucknow.	Complied. Fire protection system for plant inter-alia includes measure to check / minimize spontaneous fires in coal yard. We have already submitted the details of fire protection system to check / minimize spontaneous fires in coal yard with plant lay out vide our letter no PPGCL/BARA/MOEF/14/05 Date 09.05.2014
(xv)	Storage facilities for auxiliary liquid fuel such as LDO and/HFO/LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur contents in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	Complied.
(xvi)	Regular monitoring of ground water in and around ash pond area including heavy metals (Hg, Cr, As, Pb) shall be carried out, records maintained, and six monthly reports shall be furnished to the Regional Office of this Ministry. The data so obtained should be compared with the base line data so as to ensure that the ground water quality is not adversely affected due to project.	Being complied with. The ground water monitoring report is attached as Annexure III . The parameters are within standards.
(xvii)	A green belt of adequate width and density shall be developed around the plant periphery covering 1/3 of total area preferably with local species.	We have planted approx. 3,13,540 nos. of sapling till March 2022. Approx. 15000 Saplings will be planted during coming monsoon.
(xviii)	First-Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Complied.
(xix)	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited of 75 dB (A). For people working in the high noise area, requisite personal protective equipments like ear-plugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine areas, air compressors etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy/less noisy areas.	Being complied with. Personal protective equipment like earplugs/ ear muffs etc. have been provided. Noise monitoring report is attached as Annexure -IV .
(xx)	Regular monitoring of ground level concentration of SO ₂ , NO _x , RSPM and Hg shall be carried out in the impact zone and records maintained. If at any stage, these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in	Complied. The locations of the monitoring stations have been approved by U. P. Pollution Control Board (UPPCB) vide our letter no PPGCL / BARA / MOEF / 14 / 05 Dated 09.05.2014. Ambient air quality monitoring report is attached as Annexure- V .

	consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the web site of the company.	
(xxi)	A good action plan for R&R with package for the project affected persons be provided as per prevalent R&R policy within three months from the date of issue of this letter.	Complied.
(xxii)	An amount of Rs. 32 crores as capital and Rs. 6 crores/annum as recurring should be earmarked for activities to be taken up under CSR by the above proponent. Details of the activities to be undertaken in this regard should be submitted within one month from the date of issue of this letter.	During October 21 to March 22 an amount of Rs. 350 Lakh (approx.) has been incurred in different programs under thrust area – Education, Health & Sanitation, Entrepreneurship, Skill building & livelihood, Social and financial inclusion.
(xxiii)	Provision shall be made for the housing of the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health structures to be removed after the completion of the project.	Complied.
(xxiv)	The project proponent shall be advertised in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at the web site of the Ministry of Environment and Forests at http://envfor.nic.in	Complied. Advertisement was published in the Hindustan Times, The Times of India (English) Daily and Dainik Jagran and Amar Ujala (Hindi Daily) on 7 th Oct. 2009 immediately after receipt of EC.
(xxv)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad, Municipal Corporation, Urban Local Body and the Local NGO is any, from whom suggestions/representations, if any received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied Copy of the clearance letter has already been sent to the concerned departments as prescribed.
(xxvi)	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Complied. Separate Environment department is functioning.
(xxvii)	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their 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 SPCB. The criteria pollutant levels namely SPM, RSPM SO ₂ , NO _x (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	Compliance of EC condition is being submitted on time. Last report was submitted on 30.11.2021. Data of stack and ambient air is displayed at main gate of the company.
(xxviii)	The project proponent shall also submit six monthly reports on the status of compliance of	Being complied. Last report was submitted on 30.11.2021.

	the stipulated EC conditions including results of monitored data (both in hard copies as well by e-mail) to the respective regional office of MOEF, the respective Zonal Office of CPCB and the SPCB.	
(xxix)	The environment statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned 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 EC conditions and shall also be sent to the respective Regional Offices of MOEF by e-mail.	Being complied. Environment statement for FY 2020-2021 was submitted on 27.09.2021
(xxx)	Regional office of the Ministry of Forests located at Lucknow will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project Proponent will upload the compliance status in their website and update the same from time to time at least six monthly basis. Criteria pollutants levels (stack & ambient levels of NOx) will be displayed at the main gate of the power plant.	Complied. EIA/EMP report, DPR and other relevant documents have already been submitted to the Regional Office of MOEF at Lucknow. Data of stack and ambient air is displayed.
(xxxi)	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	Complied. Separate fund is available for environmental protection measures.
(xxxii)	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and dates of start of land development work and commissioning of plant.	Financial closure was obtained on 6.7.2010 and the construction activity for the project was started in Aug. 2010. All the three units are commissioned and in operation.
(xxxiii)	Full cooperation shall be extended to the Scientists/Officers from the Ministry/Regional Office of the Ministry at Bangalore/the CPCB/the SPCB who would be monitoring the compliance of environmental status.	Agreed.

**Status of Compliance conditions stipulated in extension of validity letter no
J-13011 / 60 / 2008 - IA.II (T) dtd 23.03.2015 is as under;**

S.No.	<u>Stipulated Conditions</u>	<u>Compliance Status</u>
xxxiv	Harnessing solar power within the premises of the plant particularly at available rooftops shall be carried out and status of implementation including actual generation of solar power shall be submitted along with half –yearly monitoring report.	PPGCL has installed 204 kW roof top solar power at school and roof top solar heater at guest houses. Solar based street and garden lights have also been installed. Photographs are attached as Annexure-VIII
xxxv	A long term study of radio activity and heavy metals contents on coal to be used for the power plant shall be carried through a reputed institute and results thereof analyzed every two years and reported along with monitoring reports. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	Radioactivity test report carried out by BRIT-BARC, Mumbai is attached as annexure -VI . Analysis report of heavy metals in fly ash and ash is enclosed as Annexure-II
xxxvi	Space for FGD shall be provided for future installation as may be required.	Space for FGD has already been provided for future installation.
xxxvii	Fugitive emissions shall be controlled to prevent impact on agricultural or non-agricultural land in the vicinity, if any.	Complied. Dust extraction and dust suppression system has been installed to control fugitive emission.
xxxviii	Fly ash shall not be used for agricultural purpose. No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media so that no leachate shall take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from a reputed institute and accordingly clay lining of adequate thickness shall be provided. This shall be carried out in close co-ordination with State Pollution Control Board who shall ensure that clay lining of appropriate thickness is provided.	MoEF&CC vide OM dated 28 th August 2019 has permitted use of fly ash in abandoned mines / low lying areas / soil conditioner in agriculture.
xxxix	No water bodies including natural drainage system in the area shall be disturbed due to activities associated with setting up / operation of the power plant.	Noted.
xxxx	Green belt shall also be developed around the Ash Pond over and above the Green Belt around the plant boundary.	We have planted approx. 3,13,540 nos. of sapling till March 2022. Sapling plantation will be done during coming monsoon. Approx., 15000 Saplings will be planted during coming monsoon.

xxxxi	For proper and periodic monitoring of CSR activities, a CSR Committee or a Social Audit Committee or a credible external agency shall be appointed. CSR activities shall also be evaluated by an independent external agency. This evaluation shall be both concurrent and final.	PPGCL has a CSR committee.
xxxixii	An Environmental Cell comprising of at least one expert in environmental science / engineering, ecology, occupational health and social science, shall be established preferably at the project site itself and shall be headed by an officer of appropriate level and qualification. It shall be ensured that the Head of the cell shall directly report to the Head of the Plant who would be accountable for implementation of environmental regulations and social impact improvement / mitigations.	Environment cell has been established with qualified manpower.
xxxixiii	The Project proponent shall formulate a well laid corporate Environment Policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.	PPGCL has a well laid Environment Policy.

**Status of Compliance Additional conditions stipulated vide letter no
IV /ENV/P/THE/-39 / 311 / 2009 / 1173 dtd 16.11.2011 is as under;**

S.No	<u>Stipulated Conditions</u>	<u>Compliance Status</u>
(i)	Continuous monitoring of stack and ambient air to be carried out.	Continuous monitoring of ambient and stack is being carried out.
(ii)	Display of monitoring data in public domain (main gate).	Data of stack and ambient air is being displayed at main gate.
(iii)	To put up monitoring data and six monthly monitoring report on their website	Monitoring data and six-monthly monitoring report is periodically uploaded on the Company website.

Mitra S.K. Private Limited

Building No. P-48, Udayan Industrial Estate,
3, Pagladanga Road,
Kolkata 700015, West Bengal
Tel. : 91 33 23230072. Fax : 91 33 23230078
Email : mitrasklab@yahoo.com
Web : www.mitrask.com

**TEST REPORT**

ULR: TC-695022000001889F

Name & Address of the Customer:

Prayagraj Power Generation Company Ltd,
P.O- Lohgara, Tehsil. Bara,
Prayagraj (Allahabad),
Uttarpradesh-212107.

Report No. : C/2022/1889
Date : 22.03.22
Sample No. : MSK/KOL/2022/1773
Date of receipt of sample : 11.03.22
Date(s) of performance : 11.03.22-22.03.22
Ref. No. & Date : 9200000102 dt. 24.05.21
Discipline : Chemical

We hereby certify that the following sample drawn by us from the customer has been analyzed with the following results:

1	Group	: Atmospheric Pollution
2	Description of sample (As declared by customer)	: Stack
3	Date of sampling	: 09.03.22 at 05.40 PM to 06.28PM
4	Unique Identification	: Equipment Used : MSK/KTN/SMK-01
5	Place of sampling	: Stack unit 3rd thimble no. C45972
6	Sampling Plan & Procedures used	: EPA/IS
7	Environmental conditions during sampling & Transport Condition	: Cold Chain Maintained
8	Identification of the personnel performing sampling	: Mr. Rahul Kumar

Report prepared by:

Signature :
Name : Mr. Asim Kumar Jana
Designation : Sr. Office Assistant

Report Verified By

Signature :
Name : Ms. Paulami Dutta
Designation : Executive QA

Report Sign By Authorized Signatory

Signature :
Name : Dr. Soumyadeep Mukhopadhyay
Designation : Lab In-charge

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced except in full, without the permission of Mitra S.K. Private Limited.
- The reserved part of sample(s), except perishable sample(s), shall be retained for 15 days & 1 year (Air) from the date of issue of the Test Report.
- The reserved part of sample(s), Soil, Solid & Liquid Waste shall be retained for 15 days (as per CPCB guideline) from the date of issue of the Test Report.
- Microbiological sealed pack water sample(s) shall be retained for 15 days & food sample(s) shall be retained for 4 days after analysis

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Report No. : C/2022/1889
Sample No. : MSK/KOL/2022/1773

ULR: TC-695022000001889F

ANALYSIS RESULT

A : GENERAL INFORMATION ABOUT STACK :

- | | | |
|---|---|---|
| 1 | Stack connected to | : Stack unit 3rd thimble no. C45972 |
| 2 | Emission due to | : Burning of Coal |
| 3 | Material of construction of Stack | : MS |
| 4 | Shape of Stack | : Circular |
| 5 | Whether Stack is provided with permanent platform | : Yes |
| 6 | DG Capacity | : Load-596.97 MW, Coal Flow-328.99 TPH. |

B : PHYSICAL CHARACTERISTICS OF STACK :

- | | | |
|---|--|-------------------------|
| 1 | Height of Stack from ground level | : 275 m |
| 2 | Diameter of Stack at sampling point | : 7.4 m |
| 3 | Height of the sampling point from ground level | : 42.98 m |
| 4 | Area of Stack | : 43.026 m ² |

C : ANALYSIS/CHARACTERISTIC OF STACK :

- 1 Fuel used : Coal

2. Fuel consumption:-

D : RESULTS OF SAMPLING & ANALYSIS OF GASEOUS EMISSION :

	UNIT	RESULT	METHOD	*LIMIT
1 Temperature of emission	°C	112	IS:11255 Part-3	
2 Barometric pressure	mm of Hg	758	IS:11255 Part-3	
3 Velocity of gas	m/sec	23.17	IS:11255 Part-3	
4 Quantity of gas flow	Nm ³ /hr	2412700	IS:11255 Part-3	
5 Concentration of Carbon monoxide	%v/v	<0.2	IS:13270	
6 Concentration of Carbon dioxide	%v/v	8.8	IS:13270	
7 Concentration of Oxygen	%v/v	10.6	IS:13270	
8 Concentration of Sulphur di oxide	mg/Nm ³	485.0	IS:11255 Part-2	
9 Concentration of Nitrogen di oxide	mg/Nm ³	276.5	IS:11255 Part-7	
10 Concentration of Particulate Matters	mg/Nm ³	29.6	IS:11255 Part-1	150
11 Moisture content	%v/v	<2.0	USEPA Part 4	
12 Mercury as Hg (Particulate)	mg/Nm ³	<0.002	USEPA-29	
13 Mercury as Hg (Gaseous)	mg/Nm ³	<0.003	USEPA-29	

E : POLLUTION :

Details of pollution control devices attached with the stack : ESP

*L as per CPCB Guideline

End

Report prepared by:

Signature : *Asim Kumar Jana*
Name : Mr. Asim Kumar Jana
Designation : Sr. Office Assistant

Report Verified By

Signature : *Paulami Dutta*
Name : Ms. Paulami Dutta
Designation : Executive QA

Report Sign By Authorized Signatory

Signature : *Dr. Soumyadeep Mukhopadhyay*
Name : Dr. Soumyadeep Mukhopadhyay
Designation : Lab In-charge

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TEST REPORT

ULR: TC-695022000000872F

Name & Address of the Customer:

Prayagraj Power Generation Company Ltd,
P.O- Lohgara, Tehsil, Bara,
Prayagraj(Allahabad),
Uttarpradesh-212107.

Report No. : C/2022/872
Date : 19.02.22
Sample No. : MSK/KOL/2022/764
Date of receipt of sample : 12.02.22
Date(s) of performance : 12.02.22-19.02.22
Ref. No. & Date : 9200000102 dt.24.05.21
Discipline : Chemical

We hereby certify that the following sample drawn by us from the customer has been analyzed with the following results:

1	Group	: Atmospheric Pollution
2	Description of sample (As declared by customer)	: Stack
3	Date of sampling	: 10.02.2022 at 04.41 PM to 05.40 PM
4	Unique Identification	: Equipment Used : MSK/KTN/SMK-01
5	Place of sampling	: Thimble No.- BB191 / Unit - III, Burning of Coal
6	Sampling Plan & Procedures used	: EPA/IS
7	Environmental conditions during sampling & Transport Condition	: Cold Chain Maintained
8	Identification of the personnel performing sampling	: Mr. Rahul Kumar

Report prepared by:

Signature :
Name : Mr. Asim Kumar Jana
Designation : Sr. Office Assistant

Report Verified By

Signature :
Name : Ms. Paulami Dutta
Designation : Executive QA

Report Sign By Authorized Signatory

Signature :
Name : Dr. Soumyadeep Mukhopadhyay
Designation : Lab In-charge

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- The reserved part of sample(s), except perishable sample(s), shall be retained for 15 days & 1 year (Air) from the date of issue of the Test Report.
- The reserved part of sample(s), Soil, Solid & Liquid Waste shall be retained for 15 days (as per CPCB guideline) from the date of issue of the Test Report.
- Microbiological sealed pack water sample(s) shall be retained for 15 days & food sample(s) shall be retained for 4 days after analysis

Head Office: Shraichi Centre (5th floor), 74B, A.J.C. Bose Road, Kolkata - 700 016, West Bengal, India.
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Report No. : C/2022/872
Sample No. : MSK/KOL/2022/764

ULR: TC-695022000000872F

ANALYSIS RESULT

A : GENERAL INFORMATION ABOUT STACK :

- 1 Stack connected to : Thimble No. - BB191 / Unit - III, Burning of Coal
- 2 Emission due to : Burning of Coal
- 3 Material of construction of Stack : MS
- 4 Shape of Stack : Circular
- 5 Whether Stack is provided with permanent platform : Yes
- 6 DG Capacity : Load-632.9 MW, Coal Flow-359.5 TPH.

B : PHYSICAL CHARACTERISTICS OF STACK :

- 1 Height of Stack from ground level : 275 m
- 2 Diameter of Stack at sampling point : 7.4 m
- 3 Height of the sampling point from ground level : 42.98 m
- 4 Area of Stack : 43.026 m²

C : ANALYSIS/CHARACTERSTIC OF STACK :

- 1 Fuel used : Coal

2. Fuel consumption:-

D : RESULTS OF SAMPLING & ANALYSIS OF GASEOUS EMISSION :

	UNIT	RESULT	METHOD	*LIMIT
1 Temperature of emission	°C	125	IS:11255 Part-3	
2 Barometric pressure	mm of Hg	758	IS:11255 Part-3	
3 Velocity of gas	m/sec	25.52	IS:11255 Part-3	
4 Quantity of gas flow	Nm ³ /hr	2418565.6	IS:11255 Part-3	
5 Concentration of Carbon monoxide	%v/v	<0.2	IS:13270	
6 Concentration of Carbon dioxide	%v/v	10.2	IS:13270	
7 Concentration of Oxygen	%v/v	8.8	IS:13270	
8 Concentration of Sulphur di oxide	mg/Nm ³	561.9	IS:11255 Part-2	
9 Concentration of Nitrogen di oxide	mg/Nm ³	376.6	IS:11255 Part-7	
10 Concentration of Particulate Matters	mg/Nm ³	43.6	IS:11255 Part-1	150
11 Moisture content	%v/v	<2.0	USEPA Part 4	
12 Mercury as Hg (Particulate)	mg/Nm ³	<0.002	USEPA-29	
13 Mercury as Hg (Gaseous)	mg/Nm ³	<0.003	USEPA-29	

E : POLLUTION :

Details of pollution control devices attached with the stack

:ESP

*Limit as per CPCB Guideline

End

Report prepared by:

Signature :
Name : Mr. Asim Kumar Jana
Designation : Sr. Office Assistant

Report Verified By

Signature :
Name : Ms. Paulami Dutta
Designation : Executive QA

Report Sign By Authorized Signatory

Signature :
Name : Dr. Soumyadeep Mukhopadhyay
Designation : Lab In-charge

TEST REPORT

ULR: TC-695021000004949F

Name & Address of the Customer:

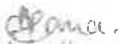
Prayagraj Power Generation Company Ltd.
P.O- Lohgara, Tehsil, Bara,
Prayagraj(Allahabad),
Uttarpradesh-212107.

Report No. : C/2021/4949
Date : 18.12.21
Sample No. : MSK/KOL/2021/4827
Date of receipt of sample : 11.12.21
Date(s) of performance : 11.12.21-18.12.21
Ref. No. & Date : 9200000102 dt.24.05.21
Discipline : Chemical

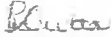
We hereby certify that the following sample drawn by us from the customer has been analyzed with the following results:

1	Group	: Atmospheric Pollution
2	Description of sample (As declared by customer)	: Stack
3	Date of sampling	: 09.12.21 at 04.41 PM to 05.40 PM
4	Unique Identification	: Equipment Used : MSK/KTN/SMK-01
5	Place of sampling	: Thimble No.- C45473 / Unit - I
6	Sampling Plan & Procedures used	: EPA/IS
7	Environmental conditions during sampling & Transport Condition	: Cold Chain Maintained
8	Identification of the personnel performing sampling	: Mr. Ravishankar Roy

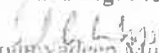
Report prepared by

Signature : 
Name : Mr. Asim Kumar Jana
Designation : Sr. Office Assistant

Report Verified By

Signature : 
Name : Ms. Paulami Dutta
Designation : Executive QA

Report Sign By Authorized Signatory

Signature : 
Name : Dr. Soumyadeep Mukherjee
Designation : Lab In-Charge

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced except in full, without the permission of Mitra S.K. Private Limited.
- The reserved part of sample(s), except perishable sample(s), shall be retained for 15 days & 1 year (Air) from the date of issue of the Test Report.
- The reserved part of sample(s), Soil, Solid & Liquid Waste shall be retained for 15 days (as per CPCB guideline) from the date of issue of the Test Report.
- Microbiological sealed pack water sample(s) shall be retained for 15 days & food sample(s) shall be retained for 4 days after analysis

Mitra S.K.Private Limited

Building No. P-46, Udayan Industrial Estate,
3, Pagladanga Road,
Kolkata 700015, West Bengal
Tel. : 91 33 23230072, Fax : 91 33 23230078
Email : mitrasklab@yahoo.com
Web : www.mitrask.com



ULR: TC-695021000004949F

Report No. : C/2021/4949
Sample No. : MSK/KOL/2021/4827

ANALYSIS RESULT

A : GENERAL INFORMATION ABOUT STACK :				
1	Stack connected to	: Thimble No.- C45473 / Unit - I		
2	Emission due to	: Burning of Coal		
3	Material of construction of Stack	: MS		
4	Shape of Stack	: Circular		
5	Whether Stack is provided with permanent platform	: Yes		
6	DG Capacity	: Load-632MW, Coal Flow-337TPH.		
B : PHYSICAL CHARACTERISTICS OF STACK :				
1	Height of Stack from ground level	: 275 m		
2	Diameter of Stack at sampling point	: 7.4 m		
3	Height of the sampling point from ground level	: 42.98 m		
4	Area of Stack	: 43.026 m ²		
C : ANALYSIS/CHARACTERSTIC OF STACK :				
1	Fuel used : Coal	2. Fuel consumption:-		
D : RESULTS OF SAMPLING & ANALYSIS OF GASEOUS EMISSION :				
		UNIT	RESULT	METHOD
1	Temperature of emission	°C	112	IS:11255 Part-3
2	Barometric pressure	mm of Hg	742	IS:11255 Part-3
3	Velocity of gas	m/sec	24.0	IS:11255 Part-3
4	Quantity of gas flow	Nm ³ /hr	2729359	IS:11255 Part-3
5	Concentration of Carbon monoxide	%v/v	<0.2	IS:13270
6	Concentration of Carbon dioxide	%v/v	10.4	IS:13270
7	Concentration of Oxygen	%v/v	8.8	IS:13270
8	Concentration of Sulphur di oxide	mg/Nm ³	534.4	IS:11255 Part-2
9	Concentration of Nitrogen di oxide	mg/Nm ³	274.6	IS:11255 Part-7
10	Concentration of Particulate Matters	mg/Nm ³	44.3	IS:11255 Part-1
11	Moisture content	%v/v	<2.0	USEPA Part 4
12	Mercury as Hg (Particulate)	mg/Nm ³	<0.002	USEPA-29
13	Mercury as Hg (Gaseous)	mg/Nm ³	<0.003	USEPA-29
*LIMIT				
150				
: POLLUTION :				
Details of pollution control devices attached with the stack		: ESP		

*Limit as per CPCB Guideline

End

Report prepared by

Signature :
Name : Mr. Asim Kumar Jana
Designation : Sr. Office Assistant

Report Verified By

Signature :
Name : Ms. Paulami Dutta
Designation : Executive QA

Report Sign By Authorized Signatory

Signature :
Name : Dr. Soumyadeep Mukhopadhyay
Designation : Lab In-Charge

TEST REPORT

ULR: TC-695021000004950F

Name & Address of the Customer:

Prayagraj Power Generation Company Ltd.
P.O- Lohgara, Tehsil, Bara,
Prayagraj (Allahabad),
Uttarpradesh-212107.

Report No.

:C/2021/4950

Date

:18.12.21

Sample No.

:MSK/KOL/2021/4828

Date of receipt of sample

:11.12.21

Date(s) of performance

:11.12.21-18.12.21

Ref. No. & Date

:9200000102 dt.24.05.21

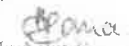
Discipline

:Chemical

We hereby certify that the following sample drawn by us from the customer has been analyzed with the following results:

1	Group	: Atmospheric Pollution
2	Description of sample (As declared by customer)	: Stack
3	Date of sampling	: 09.12.21 at 06.20 PM -07.19 PM
4	Unique Identification	: Equipment Used : MSK/KTN/SMK-01
5	Place of sampling	: Thimble No. - A1026 / Unit - 2
6	Sampling Plan & Procedures used	: EPA/IS
7	Environmental conditions during sampling & Transport Condition	: Cold Chain Maintained
8	Identification of the personnel performing sampling	: Mr. Ravishankar Roy

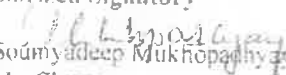
Report prepared by

Signature : 
Name : Mr. Asim Kumar Jana
Designation : Sr. Office Assistant

Report Verified By

Signature : 
Name : Ms. Pankami Dutta
Designation : Executive QA

Report Sign By Authorized Signatory

Signature : 
Name : Dr. Soumyadeep Mukhopadhyay
Designation : Lab In-Charge

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- The reserved part of sample(s), Soil, Solid & Liquid Waste shall be retained for 15 days (as per CPCB guideline) from the date of issue of the Test Report.
- Microbiological sealed pack water sample(s) shall be retained for 15 days & food sample(s) shall be retained for 4 days after analysis

ULR: TC-695021000004950F

Report No. : C/2021/4950
Sample No. : MSK/KOL/2021/4828

ANALYSIS RESULT

A : GENERAL INFORMATION ABOUT STACK :

1	Stack connected to	: Thimble No. - A1026 / Unit - 2
2	Emission due to	: Burning of Coal
3	Material of construction of Stack	: MS
4	Shape of Stack	: Circular
5	Whether Stack is provided with permanent platform	: Yes
6	DG Capacity	: Load-615MW, Coal Flow-323.6TPH

B : PHYSICAL CHARACTERISTICS OF STACK :

1	Height of Stack from ground level	: 275 m
2	Diameter of Stack at sampling point	: 7.4 m
3	Height of the sampling point from ground level	: 42.98 m
4	Area of Stack	: 43.026 m ²

C : ANALYSIS/CHARACTERISTIC OF STACK :

1	Fuel used : Coal	2. Fuel consumption:-
---	------------------	-----------------------

D : RESULTS OF SAMPLING & ANALYSIS OF GASEOUS EMISSION :

	UNIT	RESULT	METHOD	*LIMIT
1	Temperature of emission	°C	124	IS:11255 Part-3
2	Barometric pressure	mm of Hg	742	IS:11255 Part-3
3	Velocity of gas	m/sec	24.84	IS:11255 Part-3
4	Quantity of gas flow	Nm ³ /hr	2745914	IS:11255 Part-3
5	Concentration of Carbon monoxide	%v/v	<0.2	IS:13270
6	Concentration of Carbon dioxide	%v/v	10.2	IS:13270
7	Concentration of Oxygen	%v/v	9.4	IS:13270
8	Concentration of Sulphur di oxide	mg/Nm ³	488.1	IS:11255 Part-2
9	Concentration of Nitrogen di oxide	mg/Nm ³	242.2	IS:11255 Part-7
10	Concentration of Particulate Matters	mg/Nm ³	38.7	IS:11255 Part-1
11	Moisture content	%v/v	<2.0	USEPA Part 4
12	Mercury as Hg (Particulate)	mg/Nm ³	<0.002	USEPA-29
13	Mercury as Hg (Gaseous)	mg/Nm ³	<0.003	USEPA-29

: POLLUTION :

Details of pollution control devices attached with the stack : ESP

*Limit as per CPCB Guideline

End

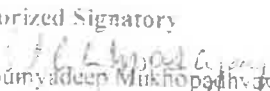
Report prepared by

Signature : 
Name : Mr. Asim Kumar Jana
Designation : Sr. Office Assistant

Report Verified By

Signature : 
Name : Ms. Paulami Dutta
Designation : Executive QA

Report Sign By Authorized Signatory

Signature : 
Name : Dr. Soumyadeep Mukhopadhyay
Designation : Lab In-Charge

TEST REPORT

ULR: TC-695021000000091F

Name & Address of the Customer:

Prayagraj Power Generation Company Ltd.
P.O- Lohgara, Tehsil. Bara.
Prayagraj (Allahabad).
Uttarpradesh-212107.

Report No.

:C/2022/0091

Date

:06.01.22

Sample No.

:MSK/KOL/2021/5130

Date of receipt of sample

:29.12.21

Date(s) of performance

:29.12.21-06.01.22

Ref. No. & Date

:9200000102 dt.24.05.21

Discipline

:Chemical

We hereby certify that the following sample drawn by us from the customer has been analyzed with the following results:

1	Group	: Atmospheric Pollution
2	Description of sample (As declared by customer)	: Stack
3	Date of sampling	: 26.12.21 at 09.39 AM to 10.28 AM
4	Unique Identification	: Equipment Used : MSK/KTN/SMK-01
5	Place of sampling	: Thimble No.- C45967 / Unit - III
6	Sampling Plan & Procedures used	: EPA/IS
7	Environmental conditions during sampling & Transport Condition	: Cold Chain Maintained
8	Identification of the personnel performing sampling	: Mr. Ravishankar Roy

Report prepared by

Signature : 
Name : Mr. Asim Kumar Jana
Designation : Jr. Office Assistant

Report Verified By

Signature : 
Name : Ms. Paulami Dutta
Designation : Executive QA

Report Sign By Authorized Signatory

Signature : 
Name : Dr. Sudmyadeep Mukhopadhyay
Designation : Lab In-Charge

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- The reserved part of sample(s), Soil, Solid & Liquid Waste shall be retained for 15 days (as per CPCB guideline) from the date of issue of the Test Report.
- Microbiological sealed pack water sample(s) shall be retained for 15 days & food sample(s) shall be retained for 4 days after analysis

Report No. : C/2022/0091

Sample No. : MSK/KOL/2021/5130

ANALYSIS RESULT**A : GENERAL INFORMATION ABOUT STACK :**

1	Stack connected to	: Thimble No.- C45967 / Unit - III
2	Emission due to	: Burning of Coal
3	Material of construction of Stack	: MS
4	Shape of Stack	: Circular
5	Whether Stack is provided with permanent platform	: Yes
6	DG Capacity	: Load-422.5MW, Coal Flow-279TPH.

B : PHYSICAL CHARACTERISTICS OF STACK :

1	Height of Stack from ground level	: 275 m
2	Diameter of Stack at sampling point	: 7.4 m
3	Height of the sampling point from ground level	: 42.98 m
4	Area of Stack	: 43.026 m ²

C : ANALYSIS/CHARACTERSTIC OF STACK :

1 Fuel used : Coal

2. Fuel consumption:-

D : RESULTS OF SAMPLING & ANALYSIS OF GASEOUS EMISSION :

	UNIT	RESULT	METHOD	*LIMIT
1	Temperature of emission	°C	110	IS:11255 Part-3
2	Barometric pressure	mm of Hg	743	IS:11255 Part-3
3	Velocity of gas	m/sec	23.25	IS:11255 Part-3
4	Quantity of gas flow	Nm ³ /hr	2685252	IS:11255 Part-3
5	Concentration of Carbon monoxide	%v/v	<0.2	IS:13270
6	Concentration of Carbon dioxide	%v/v	10.4	IS:13270
7	Concentration of Oxygen	%v/v	9.6	IS:13270
8	Concentration of Sulphur di oxide	mg/Nm ³	431.0	IS:11255 Part-2
9	Concentration of Nitrogen di oxide	mg/Nm ³	241.6	IS:11255 Part-7
10	Concentration of Particulate Matters	mg/Nm ³	39.4	IS:11255 Part-1
11	Moisture content	%v/v	<2.0	USEPA Part 4
12	Mercury as Hg (Particulate)	mg/Nm ³	<0.002	USEPA-29
13	Mercury as Hg (Gaseous)	mg/Nm ³	<0.003	USEPA-29

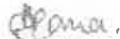
POLLUTION :

Details of pollution control devices attached with the stack : ESP

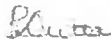
*Limit as per CPCB Guideline

End

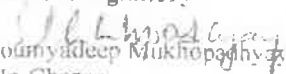
Report prepared by

Signature : 
Name : Mr. Asim Kumar Jana
Designation : Sr. Office Assistant

Report Verified By

Signature : 
Name : Ms. Paulami Dutta
Designation : Executive QA

Report Sign By Authorized Signatory

Signature : 
Name : Dr. Soumyadeep Mukhopadhyay
Designation : Lab In-Charge

Mitra S. K. Private Limited

Above Punjab National Bank
Maihar Road, NH-7
Kuthla, Katni-483501 (M.P.)
CIN : U51909WB1956PTC023037



TESTING • INSPECTION

T : 07622-240651, 240919
E : bmdubey@mitrask.co.in
sknigam@mitrask.co.in

TEST REPORT**Name & Address of the Customer :**

Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/BAB/0004

Date : 31/12/2021

Sample No. MSKGL/ED/2021-22/12/01263

Date Of Sample : 11/12/2021

Sample Description : FLY ASH SAMPLE

Sample Mark : Bottom Ash (Black Sample)

Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

SL.No.	Parameter	UOM	Result	Method
1.	Aluminum Oxide (as Al ₂ O ₃)	mg/kg	2158	EPA 6010D
2.	Arsenic as As (TCLP)	None	<0.02 mg/l	EPA 1311
3.	Barium as Ba (TCLP)	None	0.34 mg/l	EPA 1311
4.	Cadmium as Cd (TCLP)	None	<0.1 mg/l	EPA 1311
5.	Calcium Oxide (as CaO)	mg/kg	963	TPM/MSK/ P&E /2/24
6.	Chloride (as Cl)	mg/kg	130	TPM/MSK/ P&E /2/25
7.	Cobalt as Co (TCLP)	None	<0.1 mg/l	EPA 1311
8.	Copper as Cu (TCLP)	None	<0.1 mg/l	EPA 1311
9.	*Fluoride (TCLP)	None	0.26 mg/l	EPA 1311
10.	Iron Oxide (as Fe ₂ O ₃)	mg/kg	1779	TPM/MSK/ P&E /2/31
11.	Iron as Fe (TCLP)	None	0.8 mg/l	EPA 1311
12.	Lead as Pb (TCLP)	None	<0.1 mg/l	EPA 1311
13.	Loss on ignition	%	0.94	TPM/MSK/P&E/2/4
14.	Magnesium Oxide (as MgO)	mg/kg	260	TPM/MSK/ P&E /2/26
15.	Manganese as Mn (TCLP)	None	0.15 mg/l	EPA 1311
16.	Mercury as Hg (TCLP)	None	<0.5 mg/l	EPA 1311
17.	Moisture content	%	35	TPM/MSK/ P&E /2/28
18.	Nickel as Ni (TCLP)	None	<0.1 mg/l	EPA 1311
19.	P ₂ O ₅	mg/kg	240	TPM/MSK/ P&E /2/32
20.	Particle Size (10 - 50)	None	57%	TPM/MSK/ P&E /5/01
21.	Particle Size (100 - 150 micron)	None	15.00%	TPM/MSK/ P&E /5/01
22.	Particle Size (50 - 75)	None	1%	TPM/MSK/ P&E /5/01
23.	Particle Size (75 - 100)	None	14.00%	TPM/MSK/ P&E /5/01
24.	Particle Size (<10)	None	7.9%	TPM/MSK/ P&E /5/01

Mitra S. K. Private Limited

Above Punjab National Bank
Maihar Road, NH-7
Kuthla, Katni-483501 (M.P.)
CIN : U51909WB1956PTC023037



TESTING • INSPECTION

T : 07622-240651, 240919

E : bmdubey@mitrask.co.in

sknigam@mitrask.co.in

TEST REPORT

Name & Address of the Customer :

Prayagraj Power Generation Company Ltd.

Vill.: Khan Semra,

Tehsil : Bara,

Dist.: Prayagraj [Pin- 212107]

Uttar Pradesh.

Report No. : MSK/KTN/2021-22/BAB/0004

Date : 31/12/2021

Sample No. MSKGL/ED/2021-22/12/01263

Date Of Sample : 11/12/2021

Sample Description : FLY ASH SAMPLE

Sample Mark : Bottom Ash (Black Sample)

Ref. No. & Date : 9200000102. Dt -24/05/2021.

ANALYSIS RESULT

SL.No.	Parameter	UOM	Result	Method
25.	Particle Size (>150)	None	5.10%	TPM/MSK/ P&E /5/01
26.	Permeability	None	11 cm/hrs	IS 2720 (Part 17)-1986; Rffm:2011
27.	Pottasium Oxide (as K ₂ O)	mg/kg	77	TPM/MSK/ P&E /2/27
28.	Silicon Dioxide (as SiO ₂)	%	41	TPM/MSK/ P&E /2/60
29.	Sodium Oxide (as Na ₂ O)	mg/kg	159	TPM/MSK/ P&E /2/27
30.	Specific gravity	None	1.79	S 2720 (Part-3)-1980; Rffm:2011
31.	Sulphate as SO ₃	mg/kg	230	TPM/MSK/P&E/2/37
32.	Titanium Oxide (as TiO ₂)	mg/kg	<4.0	EPA 6010D
33.	Total Chromium as Cr (TCLP)	None	<0.1 mg/l	EPA 1311
34.	Zinc as Zn (TCLP)	None	<0.1 mg/l	EPA 1311

Prepared By:

For Mitra S. K. Private Limited

Authorised Signatory

Mitra S. K. Private Limited

Building No. P- 48, Udayan Industrial Estate,
3, Pagladanga Road,
Kolkata 700015, West Bengal
Tel. : 91 33 23230072 Fax : 91 33 23230073.
Email : mitrasklab@yahoo.com
Web : www.mitrask.com



TEST REPORT

ULR: TC-695021000005005F

Name & Address of the Customer:
Prayagraj Power Generation Company Ltd.,
P.O- Lohgara, Tehsil, Bara,
Prayagraj (Allahabad),
Uttarpradesh-212107.

Report No. : C/2021/5005
Date : 21.12.21
Sample No. : MSK/KOL/2021/4872
Date of receipt of sample : 14.12.21
Date(s) of performance : 14.12.21-21.12.21
Ref. No. & Date : 9200000102 dt.24.05.21
Discipline : Chemical

We hereby certify that the following sample drawn by us from the customer has been analyzed with the following results:

1	Group	: Pollution & Environment
2	Description of sample (As declared by customer)	: Effluent Water
3	Date of sampling	: 13.12.21
4	Unique Identification	: Process Water (Ash Dyke)
5	Place of sampling	: Prayagraj Power Generation Company Ltd, P.O- Lohgara, Tehsil, Bara, Prayagraj (Allahabad), Uttarpradesh-212107.
6	Sampling Plan & Procedures used	: APHA 23 rd edition, 2017, 1060B, C
7	Environmental conditions during sampling & Transport Condition	: Maintained
8	Identification of the personnel performing sampling	: Mr. Rahul Nishad

ANALYSIS RESULT

SL. No.	Test Parameter	Test Method	Result
1	TSS in mg/l	APHA 23 rd Edition, 2540D	50
2	pH at 25 deg C	APHA 23 rd Edition, 4500-H+B	7.89
3	O & G in mg/l	APHA 23 rd Edition, 5520B	<1.4

END

Report prepared by:

Signature :
Name : Mr. Asim Kumar Jana
Designation : Sr. Office Assistant

Report Verified by

Signature :
Name : Ms. Paulami Dutta
Designation : Executive QA

Report Sign by Authorized Signatory

Signature :
Name : Dr. Soumyadeep Mukhopadhyay
Designation : Lab In-Charge

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Mitra S. K. Private Limited

Above Punjab National Bank
Maihar Road, NH-7
Kuthla, Katni-483501 (M.P.)
CIN : U51909WB1956PTC023037

T : 07622-240651, 240919
E : bmdubey@mitrask.co.in
sknigam@mitrask.co.in

TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212197]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/GDW/0136
Date : 28/03/2022
Sample No. : MSKGL/ED/2021-22/03/01798
Date Of Sample : 09/03/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-2, Kapari Panchayat Bhawan

Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	145	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C, 2017
04.	Arsenic (as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	68	75	200	mg/l	APHA (23rd Edition) 3500 Ca B, 2017
09.	Chloride (as Cl)	85	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
12.	Fluoride (as F)	0.25	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
15.	Iron (as Fe)	0.28	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
17.	Magnesium (as Mg)	11.9	30	100	mg/l	APHA (23rd Edition) 3500 Mg B, 2017
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nitrate (as NO ₃)	25	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
23.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Sulphate (as SO ₄)	32	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017

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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Total Hardness (as CaCO ₃)	181	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition) 3120B 2017
28.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
29.	Total coliform bacteria	<2		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)
30.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
	Odour	Agreeable	Agreeable	Agreeable	None	APHA (23rd Edition) 2150B
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
33.	Total Dissolved Solids (as TDS)	285	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	3.2	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	7.12 at 25 deg C	6.5-8.5	No Relaxation	None	APHA (23rd Edition) 4500-H-B

For Mitra S. K. Private Limited

Prepared By:

Authorised Signatory

Mitra S. K. Private Limited

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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/GDW/0129
Date : 26/02/2022
Sample No. : MSKGL/ED/2021-22/02/02087
Date Of Sample : 10/02/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-2, Kapari Panchayat Bhawan

Ref. No. & Date : 9200000102, Dt-24/05/2021.

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	138	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition) 5540 C, 2017
04.	Arsenic (as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017
08.	Calcium (as Ca)	64	75	200	mg/l	APHA (23rd Edition) 3500 Ca B, 2017
09.	Chloride (as Cl)	73	250	1000	mg/l	APHA (23rd Edition) 4500-Cl B 2017
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition) 4500 CN- F 2017
12.	Fluoride (as F)	0.31	1.0	1.5	mg/l	APHA (23rd Edition) 4500 - F C/D, 2017
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm: 2014
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
15.	Iron (as Fe)	0.24	0.3	No Relaxation	mg/l	APHA (23rd Edition) 3500 Fe B 2017
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017
17.	Magnesium (as Mg)	8.8	30	100	mg/l	APHA (23rd Edition) 3500 Mg B, 2017
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025 (Part 48)-1994; Rffm: 2014
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017
22.	Nitrate (as NO ₃)	29	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
23.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition) 5530C 2017 (Chloroform Extraction)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017
25.	Sulphate (as SO ₄)	27	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017

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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Total Hardness (as CaCO ₃)	195	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition) 3120B 2017
28.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
29.	Total coliform bacteria	<2		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)
30.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA (23rd Edition) 2150B
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
33.	Total Dissolved Solids (as TDS)	361	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	2.8	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	7.35 at 25 deg C	6.5-8.5	No Relaxation	None	APHA (23rd Edition) 4500-H-B

Prepared By:

For Mitra S. K. Private Limited

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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/GDW/0111
Date : 25/01/2022
Sample No. : MSKGL/ED/2021-22/01/00862
Date Of Sample : 07/01/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-2, Kapari Panchayat Bhawan

Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	132	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition) 5540 C, 2017
04.	Arsenic (as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017
08.	Calcium (as Ca)	61	75	200	mg/l	APHA (23rd Edition) 3500 Ca B, 2017
09.	Chloride (as Cl)	70	250	1000	mg/l	APHA (23rd Edition) 4500-Cl B 2017
	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition) 4500 CN- F 2017
12.	Fluoride (as F)	0.30	1.0	1.5	mg/l	APHA (23rd Edition) 4500 - F C/D, 2017
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
15.	Iron (as Fe)	0.29	0.3	No Relaxation	mg/l	APHA (23rd Edition) 3500 Fe B 2017
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017
17.	Magnesium (as Mg)	8.4	30	100	mg/l	APHA (23rd Edition) 3500 Mg B, 2017
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017
22.	Nitrate (as NO ₃)	28	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
23.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition) 5530C 2017 (Chloroform Extraction)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017
25.	Sulphate (as SO ₄)	26	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017

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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Total Hardness (as CaCO ₃)	186	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition) 3120B 2017
28.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
29.	Total coliform bacteria	<2		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)
	CoLOUR	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA (23rd Edition) 2150B
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
33.	Total Dissolved Solids (as TDS)	344	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	2.7	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	6.83 at 25 deg C	6.5-8.5	No Relaxation	None	APHA (23rd Edition) 4500-H-B

For Mitra S. K. Private Limited

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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/GDW/0113
Date : 25/01/2022
Sample No. : MSKGL/ED/2021-22/01/00864
Date Of Sample : 07/01/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-4, Jorvat Village (School)

Ref. No. & Date : 9200000102, Dt-24/05/2021.

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	148	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	73	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	130	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
12.	Fluoride (as F)	0.40	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
15.	Iron (as Fe)	0.18	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
17.	Magnesium (as Mg)	22	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nitrate (as NO ₃)	32	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
23.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Sulphate (as SO ₄)	54	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017

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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Total Hardness (as CaCO ₃)	270	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition) 3120B 2017
28.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
29.	Total coliform bacteria	<2		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)
	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA (23rd Edition) 2150B
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
33.	Total Dissolved Solids (as TDS)	502	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	3.2	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	6.98 at 25 deg C	6.5-8.5	No Relaxation	None	APHA (23rd Edition) 4500-H-B

For Mitra S. K. Private Limited

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Prepared By:

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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/GDW/0080
Date : 29/12/2021
Sample No. : MSKGL/ED/2021-22/12/01165
Date Of Sample : 10/12/2021
Sample Description : Ground Drinking Water
Sample Mark : HP-2, Kapari Panchayat Bhawan

Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	80	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	25	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	44	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
12.	Fluoride (as F)	0.15	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
13.	Free Residual Chlorine	<0.01	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
15.	Iron (as Fe)	<0.05	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
17.	Magnesium (as Mg)	4.7	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nitrate (as NO ₃)	12	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
23.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Sulphate (as SO ₄)	6.9	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017

Mitra S. K. Private Limited

Above Punjab National Bank
Maihar Road, NH-7
Kuthla, Katni-483501 (M.P.)
CIN : U51909WB1956PTC023037



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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Total Hardness (as CaCO ₃)	82	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition) 3120B 2017
28.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
29.	Total coliform bacteria	9		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)
30.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA (23rd Edition) 2150B
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
33.	Total Dissolved Solids (as TDS)	182	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	<1.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	6.84 at 25 deg C	6.5-8.5	No Relaxation	None	APHA (23rd Edition) 4500-H-B

For Mitra S. K. Private Limited

Authorised Signatory

Prepared By:

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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212197]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/GDW/0073
Date : 17/11/2021
Sample No. : MSKGL/ED/2021-22/11/00832
Date Of Sample : 08/11/2021
Sample Description : Ground Drinking Water
Sample Mark : HP-2, Kapari Panchayat Bhawan

Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	81	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	28	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	33	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
12.	Fluoride (as F)	<0.1	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
15.	Iron (as Fe)	0.25	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
17.	Magnesium (as Mg)	3.7	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nitrate (as NO ₃)	10	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
23.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Sulphate (as SO ₄)	10	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017

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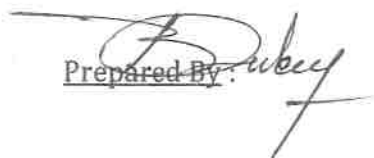
Above Punjab National Bank
Maihar Road, NH-7
Kuthla, Katni-483501 (M.P.)
CIN : U51909WB1956PTC023037



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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Total Hardness (as CaCO ₃)	85	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition) 3120B 2017
28.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
29.	Total coliform bacteria	<2		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)
30.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA (23rd Edition) 2150B
32.	Taste	Not Done			None	Lab Method
33.	Total Dissolved Solids (as TDS)	196	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	4.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	7.44 at 25 deg C	6.5-8.5	No Relaxation	None	APHA (23rd Edition) 4500-H-B

Prepared By: 

For Mitra S. K. Private Limited


Authorised Signatory

Mitra S. K. Private Limited

Above Punjab National Bank
Maihar Road, NH-7
Kuthla, Katni-483501 (M.P.)
CIN : U51909WB1956PTC023037

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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/GDW/0064
Date : 05/11/2021
Sample No. : MSKGL/ED/2021-22/10/00632
Date Of Sample : 08/10/2021
Sample Description : Ground Drinking Water
Sample Mark : HP-2, Kapari Panchayat Bhawan

Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
02.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
03.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
04.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Calcium (as Ca)	99	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
06.	Chloride (as Cl)	132	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
07.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
08.	Fluoride (as F)	0.35	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
09.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
10.	Iron (as Fe)	0.27	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
11.	Magnesium (as Mg)	15	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
12.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
13.	Nitrate (as NO ₃)	17	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
14.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
15.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
16.	Sulphate (as SO ₄)	81	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
17.	Alkalinity (as CaCO ₃)	242	200	600	mg/l	APHA (23rd Edition) 2320B 2017
18.	Total Hardness (as CaCO ₃)	210	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
19.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
20.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
21.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
23.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
24.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)

Mitra S. K. Private Limited



TESTING • INSPECTION

Above Punjab National Bank
Maihar Road, NH-7
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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
27.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
28.	Total coliform bacteria	<2		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)
29.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
	pH	7.66 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
31.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
32.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
33.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
34.	Turbidity	4.8	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	Total Dissolved Solids (as TDS)	498	500	2000	mg/l	APHA (23rd Edition) 2540C

Prepared By:

For Mitra S. K. Private Limited

Authorised Signatory

Mitra S. K. Private Limited

Above Punjab National Bank
Maihar Road, NH-7
Kuthia, Katni-483501 (M.P.)
CIN : U51909WB1956PTC023C37



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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/NOISE/0057
Date : 02/03/2022
Sample No. : MSKGL/ED/2021-22/02/02093
Date Of Sample : 25/02/2022
Sample Description : NOISE MONITORING

Ref. No. & Date : 9200000102. Dt -24/05/2021.

ANALYSIS RESULT

SL. No.	Location	Date Of Monitoring	Type Of Area	Results in Leq dB(A) Day Time	Results in Leq dB(A) Night Time
1.	TURBINE AREA	25.02.2022.	INSIDE PLANT	71.1	65.1

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For Mitra S. K. Private Limited

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Above Punjab National Bank
Maihar Road, NH-7
Kuthla, Katni-483501 (M.P.)
CIN : U51909WB1956PTC023037



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TEST REPORT

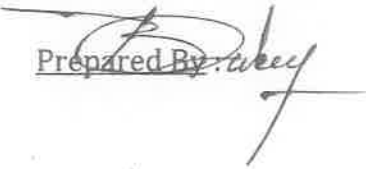
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/NOISE/0041
Date : 29/12/2021
Sample No. : MSKGL/ED/2021-22/12/02349
Date Of Sample : 23/12/2021
Sample Description : NOISE MONITORING

Ref. No. & Date : 9200000102. Dt-24/05/2021.

ANALYSIS RESULT

SL. No.	Location	Date Of Monitoring	Type Of Area	Results in Leq dB(A) Day Time	Results in Leq dB(A) Night Time
1.	TURBINE AREA	23.12.2021.	INSIDE PLANT	71.2	66.5

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For Mitra S. K. Private Limited


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Mitra S. K. Private Limited

Above Punjab National Bank
Maihar Road, NH-7
Kuthla, Katni-483501 (M.P.)
CIN : U51909WB1956PTC023037



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TEST REPORT

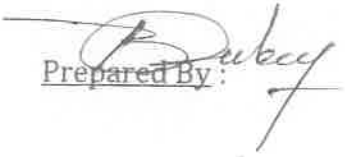
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/NOISE/0029
Date : 01/11/2021
Sample No. : MSKGL/ED/2021-22/10/01102
Date Of Sample : 22/10/2021
Sample Description : NOISE MONITORING

Ref. No. & Date : 9200000102. Dt-24/05/2021.

ANALYSIS RESULT

SL. No.	Location	Date Of Monitoring	Type Of Area	Results in Leq dB(A) Day Time	Results in Leq dB(A) Night Time
1.	TURBINE AREA	22.10.2021.	INSIDE PLANT	74.4	63.5

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For Mitra S. K. Private Limited


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Mitra S. K. Private Limited

Above Punjab National Bank
Maihar Road, NH-7
Kuthla, Katni-483501 (M.P.)
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TEST REPORT

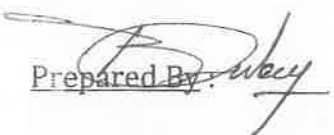
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2022-23/AA/001-004
Date : 02/04/2022
Sample No. : MSKGL/ED/2021-22/03/01535-01538
Date Of Sample : 01/03/2022
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

Ref. No. & Date : 9200000102. Dt -24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	CHP Area	89.8	45.7	17.3	27.2
2.	Fire Station	85.3	42.2	19.8	30.5
3.	Horticulture	88.9	48.9	21.2	29.9
4.	ITI College	91.5	50.3	15.1	22.2
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2022-23/AA/005-007
Date : 02/04/2022
Sample No. : MSKGL/ED/2021-22/03/01539-01541
Date Of Sample : 02/03/2022
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

Ref. No. & Date : 9200000102, Dt-24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	Lohgara Village	87.5	48.1	12.3	21.8
2.	Bemara Village	84.5	46.5	14.7	22.3
3.	Kapari Village	90.3	49.7	15.9	25.1
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/AA/0295-0298
Date : 26/02/2022
Sample No. : MSKGL/ED/2021-22/02/02037-02040
Date Of Sample : 02/02/2022
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	CHP Area	94.7	48.2	16.5	28.7
2.	Fire Station	91.6	54.7	20.1	31.6
3.	Horticulture	89.1	54.9	23.7	32.4
4.	* ITI College	91.7	40.5	15.4	22.8
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


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TEST REPORT

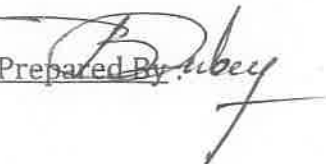
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/AA/0299-0301
Date : 26/02/2022
Sample No. : MSKGL/ED/2021-22/02/02041-02043
Date Of Sample : 03/02/2022
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	Lohgara Village	92.5	39.8	12.3	21.8
2.	Bemara Village	94.1	40.2	14.7	22.3
3.	Kapari Village	91.7	53.4	15.9	25.1
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By 

For Mitra S. K. Private Limited


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TEST REPORT

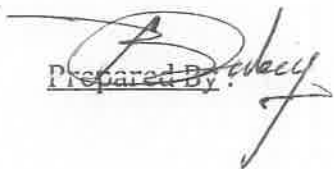
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/AA/0246-0249
Date : 28/01/2022
Sample No. : MSKGL/ED/2021-22/01/00915-00918
Date Of Sample : 03/01/2022
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

Ref. No. & Date : 9200000102. Dt -24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	CHP Area	89.6	47.5	14.7	58.3
2.	Fire Station	88.4	41.2	9.8	48.6
3.	Horticulture	91.6	50.3	8.7	36.2
4.	• ITI College	87.5	38.9	7.8	29.5
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


Authorised Signatory

T : 07622-240651, 240919
E : bmdubey@mitrask.co.in
sknigam@mitrask.co.in

TEST REPORT

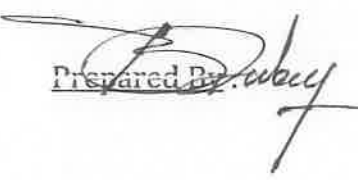
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/AA/0250-0252
Date : 28/01/2022
Sample No. : MSKGL/ED/2021-22/01/00919-00921
Date Of Sample : 04/01/2022
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

Ref. No. & Date : 9200000102. Dt -24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	Lohgara Village	87.2	48.7	8.9	26.3
2.	Bemara Village	91.3	49.6	9.5	37.4
3.	Kapari Village	85.7	44.9	10.2	42.7
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited



Authorised Signatory

Mitra S. K. Private Limited

Above Punjab National Bank
Maihar Road, NH-7
Kuthla, Katni-483501 (M.P.)
CIN : U51909WB1956PTC023037



TESTING • INSPECTION

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TEST REPORT

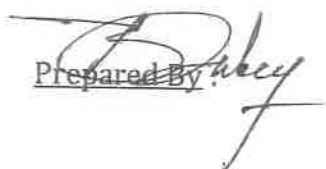
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/AA/0197-0200
Date : 21/12/2021
Sample No. : MSKGL/ED/2021-22/12/01042-01045
Date Of Sample : 01/12/2021
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

Ref. No. & Date : 92000000102, Dt-24/05/2021

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	CHP Area	93.4	57.6	7.9	35.6
2.	Fire Station	91.8	55.1	8.1	42.3
3.	Horticulture	87.6	52.6	9.1	35.4
4.	ITI College	82.7	49.2	9.4	45.1
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


Authorised Signatory

Mitra S. K. Private Limited

Above Punjab National Bank
Maihar Road, NH-7
Kuthla, Katni-483501 (M.P.)
CIN : U51909WB1956PTC023037

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TESTING • INSPECTION

TEST REPORT

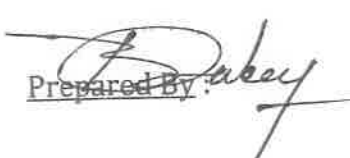
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/AA/0201-0203
Date : 21/12/2021
Sample No. : MSKGL/ED/2021-22/12/01046-01048
Date Of Sample : 03/12/2021
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

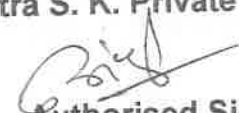
Ref. No. & Date : 9200000102, Dt -24/05/2021

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	Lohgara Village	80.7	47.9	10.2	36.7
2.	Bemara Village	64.5	35.8	10	39.2
3.	Kapari Village	83.7	54.4	10.8	43.7
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


Authorised Signatory

TEST REPORT

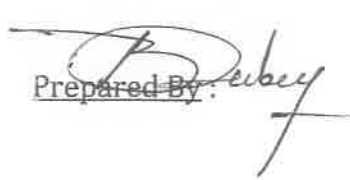
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/AA/0152-0154
Date : 03/12/2021
Sample No. : MSKGL/ED/2021-22/11/01867-01869
Date Of Sample : 02/11/2021
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

Ref. No. & Date : 9200000102. Dt-24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	Lohgara Village	71.2	34.8	8.2	21.2
2.	Bemara Village	70.2	38.2	7.6	32.2
3.	Kapari Village	71.2	38.5	8.2	16.6
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


Authorised Signatory

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sknigam@mitrask.co.in

TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/AA/0158-0161
Date : 03/12/2021
Sample No. : MSKGL/ED/2021-22/11/01873-01876
Date Of Sample : 05/11/2021
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

Ref. No. & Date : 9200000102. Dt-24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	CHP Area	84.9	44.1	10.2	41.5
2.	Fire Station	67.2	34.8	10.2	19.6
3.	Horticulture	74.5	39.8	9.7	29.0
4.	* ITI College	68.5	32.5	6.8	28.4
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


Authorised Signatory

Mitra S. K. Private Limited



TESTING • INSPECTION

Above Punjab National Bank
Maihar Road, NH-7
Kuthla, Katni-483501 (M.P.)
CIN : U51909WB1956PTC023037

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sknigam@mitrask.co.in

TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/AA/0110-0112
Date : 05/11/2021
Sample No. : MSKGL/ED/2021-22/10/01032-01034
Date Of Sample : 12/10/2021
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	Lohgara Village	63.5	35.7	6.4	32.2
2.	Bemara Village	78.6	45.5	6.2	27.8
3.	Kapari Village	47.3	21.6	<6.0	49.6
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


Authorised Signatory

Above Punjab National Bank
Maihar Road, NH-7
Kuthla, Katni-483501 (M.P.)
CIN : U51909WB1956PTC023037

TESTING • INSPECTION

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TEST REPORT

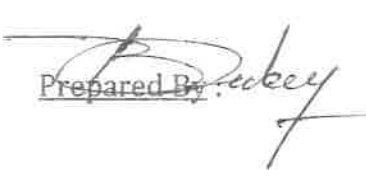
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/AA/0106-0109
Date : 05/11/2021
Sample No. : MSKGL/ED/2021-22/10/01028-01031
Date Of Sample : 11/10/2021
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

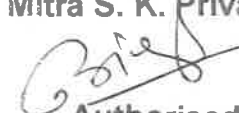
Ref. No. & Date : 9200000102. Dt-24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	CHP Area	88.4	40.4	7.8	34.8
2.	Fire Station	51.7	26.8	6.4	31.4
3.	Horticulture	55.7	30.6	<6.0	49.7
4.	ITI College	57.6	32.2	6.5	26.5
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


Authorised Signatory

ULR-TC66652008000 2423F



कम सं. / SL NO. : 497 A 49623

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सेक्टर-20, वाशी / Sec-20, Vashi,
नवी मुंबई / Navi Mumbai-400 703
www.britatom.gov.in

भारत सरकार / GOVERNMENT OF INDIA

परमाणु ऊर्जा विभाग / DEPARTMENT OF ATOMIC ENERGY

विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड / BOARD OF RADIATION & ISOTOPE TECHNOLOGY

रेडियोसक्रियता परीक्षण प्रमाण-पत्र / RADIOACTIVITY TEST CERTIFICATE

PAGE 1 OF 1

RADIOANALYTICAL LABORATORY

Ref: BRIT/RAL/D/680-94/MISC/516-30/20-21

NOV 24, 2020

TO,
PRAYAGRAJ POWER
GENERATION COMPANY LTD.
SHATABDI BHAWAN, B 12 & 13,
SECTOR 4, GAUTAM BUDH NAGAR,
NOIDA, UTTAR PRADESH - 201301.

This is regarding the "COAL / FLY ASH / BOTTOM ASH" samples submitted by you vide letter ref.no. PPGCL/ENV/FY21/158 dt. 13.10.2020 for radioactivity analysis.

The samples were analysed for U-238, Th-232, Ra-226, K-40 & Cs-137 radioactivity content and the values obtained are as follows:

SR NO	SAMPLE DETAILS	U-238 (Bq/Kg)	Th-232 (Bq/Kg)	Ra-226 (Bq/Kg)	K-40 (Bq/Kg)	Cs-137 (Bq/Kg)
1	COAL	85.6 ± 9.3	129.3 ± 14.6	94 ± 9.9	289 ± 14.2	0.4 ± 0.6
2	FLY ASH	76.4 ± 8.8	115.4 ± 15.3	69.1 ± 8.4	225.6 ± 13.2	0.2 ± 0.4
3	BOTTOM ASH	28.8 ± 5.4	61 ± 8.1	7.1 ± 2.7	96.5 ± 7.6	1.1 ± 1.1

Date of receipt of sample : 24.10.2020

Date of completion of test : 17.11.2020

The measurement values are below the clearance level for radionuclides of natural origin in bulk solid materials, as per AERB directive 01/2010 (table-3) dated 26/11/2010.

Note: (i) The report pertains to the given sample only. (ii) The sample will be retained in this laboratory for a period of one month from certificate date and thereafter it will be disposed off. (iii) This report shall not be reproduced except in full, without written approval of the laboratory. (iv) The sampling is not done by this laboratory.

checked by:

Authorized Signatory

24-11-20

अजय एन. थामके / Ajay N. Thamke

वैज्ञानिक अधिकारी / Scientific Officer

रेडियोसक्रियता प्रयोगशाला / Radioanalytical Laboratory

विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

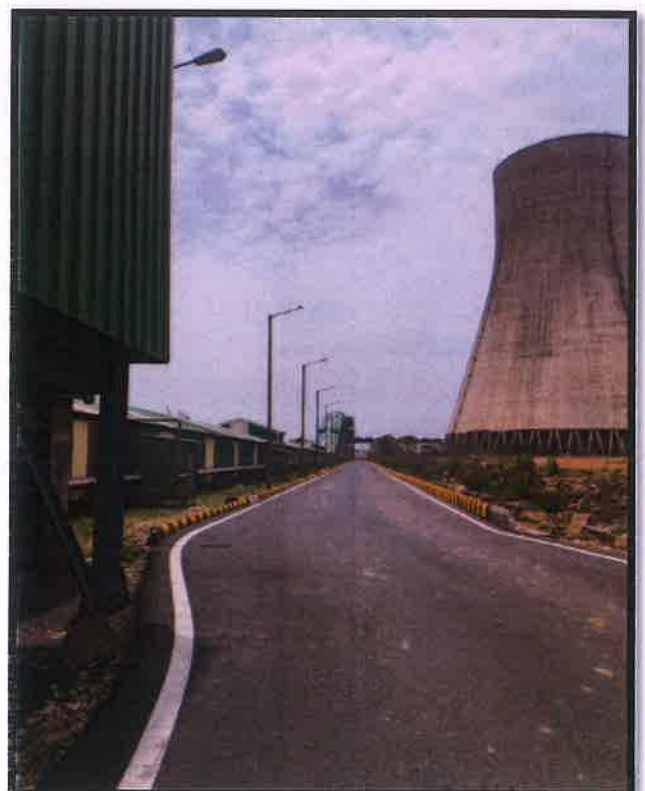
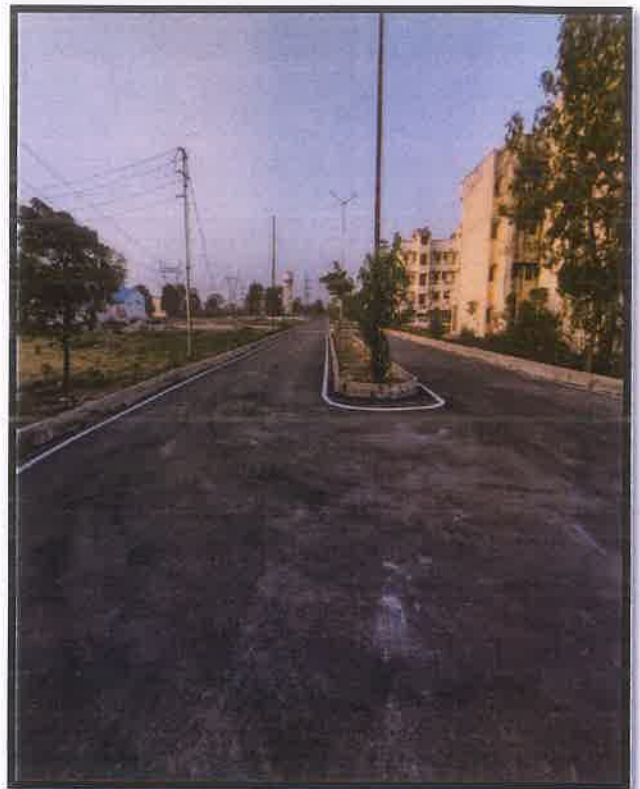
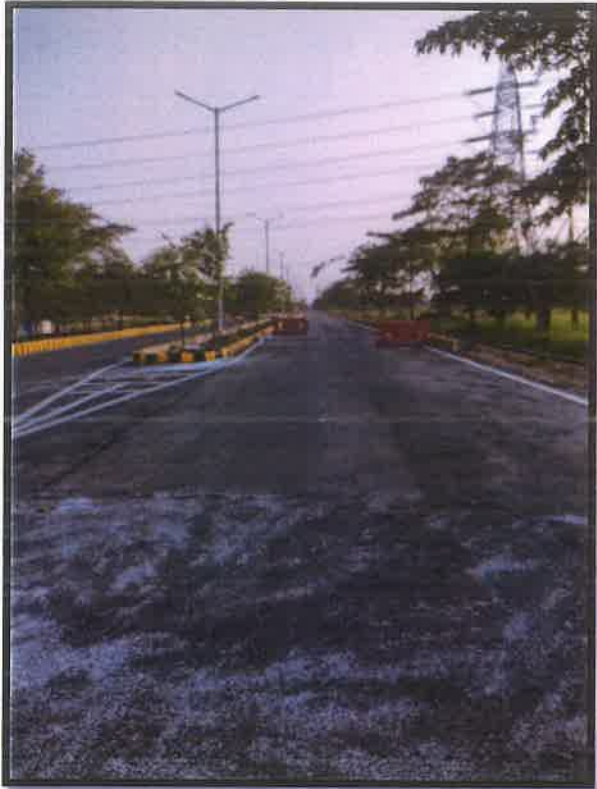
Board of Radiation & Isotope Technology

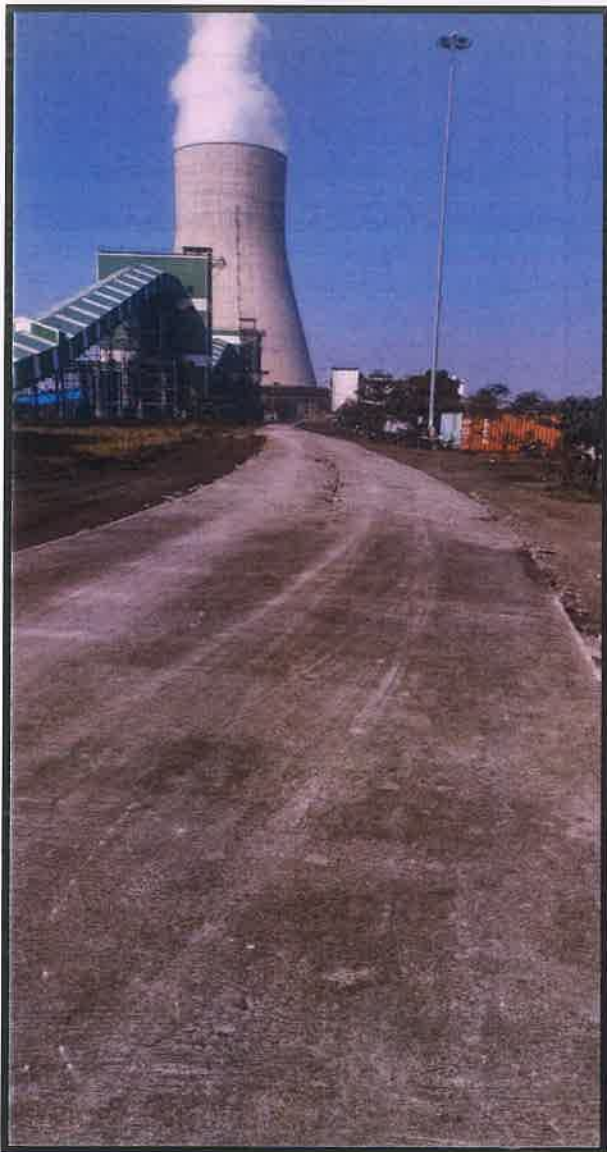
सेक्टर-20/ Sector-20 वाशी संकुल / Vashi Complex

नवी मुंबई / Navi Mumbai-400 703

****End of Report****

Annexure-VII





Annexure- VIII

