

Ref: PPGCL/ENV/FY24/208

Date: 28.11.2023

To,
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 April'23 to September'23 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 April'23 to September'23 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


S H Pandey
Chief - O&M Services

Enclosure: Environment Clearance compliance with Annexure 1 to 12

Cc: i) Incharge,

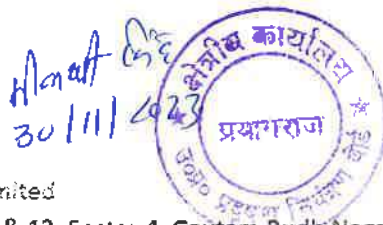
CPCB, Zonal Office (North), Lucknow

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: U40101UP2007PLC032835

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 April - 2023 to September - 2023

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

S.No	Stipulated Conditions	Compliance Status
(i)	No additional land in excess of 1468 acres has 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 Apr-23 to Sept-23 is 34.06% and Sulphur content is within 0.42%.
(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 Apr-23 to Sept-23 is 23.3 m/s, 23.2 m/s and 23.4 m/s respectively. Mercury monitoring is also being carried out through third party. Stack monitoring report is attached as Annexure-1.
(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-1.
(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. Fogging system has been installed in wagon tippler. Photographs are attached in Annexure-2
(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 in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	RCC Silo's have been constructed for storage of dry fly ash from ESP hoppers. Fly ash utilization being done through cement and brick manufacturers. Mercury and other heavy metals monitored in the bottom ash and from the effluents of existing ash pond by third party is attached as Annexure - 3 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	Ash pond is lined with HDPE. Adequate safety measures have been adopted to protect the ash dyke from getting breached.

	implemented to protect the ash dyke from getting breached.	
(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 / horticulture activities.
(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. Two numbers of percolation pond has been constructed for rain water harvesting. Also, we have developed one roof top rain water harvesting system.
(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 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	Being complied with.

	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.	The ground water monitoring report is attached as Annexure 4. 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. 3,48,348 nos. of sapling till September 2023. We have planted saplings of Neem, Seesham, Karanj, Pipal, Bargad, Kadam, Alstonia, Gulmohar, Bamboo, Ashoka. Other species include Imli, Amla, Mango, Guava and Bougenvillia, Champa, Kanail. Photographs of green belt is attached as Annexure - 5
(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 -6
(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 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.	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- 7
(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 FY 23-24, an amount of Rs. 1.67 Crore has been incurred in different programs under thrust area – Education, Health & Sanitation, Entrepreneurship, Skill building & livelihood, Social and financial inclusion. The activities undertaken are Skill building training to 150 youths of surrounding community through NSDC, support to DAV Sardar Patel public School, health services at health center and developed SHGs in surrounding community and providing skill training to 240 women, 60 solar streetlights installed in surrounding community.

		<table> <tr> <th colspan="3">CSR Expenditure FY 23-24 (Till Sept'23)</th></tr> <tr> <th>S. No.</th><th>Thrust Area/Programs</th><th>Amount (Lakh)</th></tr> <tr> <td>1</td><td>Education</td><td>60.6</td></tr> <tr> <td>2</td><td>Health and Sanitation</td><td>52.9</td></tr> <tr> <td>3</td><td>Employability & Employment</td><td>36.6</td></tr> <tr> <td>4</td><td>Social and Financial Inclusion</td><td>17.2</td></tr> <tr> <td colspan="2">Total</td><td>167.3</td></tr> </table>	CSR Expenditure FY 23-24 (Till Sept'23)			S. No.	Thrust Area/Programs	Amount (Lakh)	1	Education	60.6	2	Health and Sanitation	52.9	3	Employability & Employment	36.6	4	Social and Financial Inclusion	17.2	Total		167.3
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(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. As the project is in operation it is not applicable now																					
(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 30.05.2023. Data of stack and ambient air is displayed at main gate of the company. Please refer Annexure - 8																					

(xxviii)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by e-mail) to the respective regional office of MOEF, the respective Zonal Office of CPCB and the SPCB.	Being complied. Last report was submitted on 30.05.2023.
(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 2022-2023 was submitted vide letter PPGCL/ENV/FY24/081 dated 21.07.2023. Please refer Annexure - 9
(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. Please refer Annexure -8
(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. Expenditure incurred for Environment protection measure during FY 23-24 is attached as Annexure - 10
(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 06.07.2010 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 a total of 265 kW roof top solar power at school and hospital roof and roof top solar heater at guest houses. Solar based street and garden lights have also been installed. Please refer Annexure - 11
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. Analysis report of heavy metals in fly ash and ash is enclosed as Annexure- 12
xxxvi	Space for FGD shall be provided for future installation as may be required.	Space for FGD has already been provided for future installation. Installation of FGD is under progress.
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. 3,48,348 nos. of sapling till September 2023. We have planted saplings of Neem, Seesham, Karanj, Pipal, Bargad, Kadam, Alstonia, Gulmohar, Bamboo, Ashoka. Other species include Imli,

		Amla, Mango, Guava and Bougenvillia, Champa, Kanail. Photographs of green belt is attached as Annexure - 5
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.
xxxxii	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.
xxxxiii	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



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,
 Uttar Pradesh.

Report No. : MSKPL/ED/2023-24/J9014Y
Date : 04.05.2023
Sample No. : MSKNB/ED/2023-24/04/143E5R
Sample Description : Stack Monitoring
Date of Receipt of Sample: 24/04/2023
Sample Mark : Thimble No.- 1230 / Unit - I

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

ANALYSIS RESULT

ANALYSIS REPORT

A.	General Information About Stack :			
1.	Stack connected to	:	Unit - I	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	DG Capacity	:	660 MW	
7.	Load	:	606 (M.W)	
B.	Physical Characteristics of Stack :			
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C.	Analysis / Characteristics of Stack :			
1.	Fuel used : Coal	2.	Fuel consumption : 345 Tons/Hr.	
D.	Results of Sampling & Analysis of Gaseous Emission :			
SL. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	Barometric pressure	742	mm of Hg	IS : 11255 (Part 3) : 2008
2.	Carbon Dioxide	8.4	% v/v	IS 13270 : 1992
3.	Carbon Monoxide	<0.2	% v/v	IS 13270 : 1992
4.	Mercury as Hg (Gaseous)	<0.003	mg/Nm3	USEPA 29 by CVAS: 1996
5.	Moisture content	2.9	%	IS : 11255 (Part 3) : 2008
6.	Nitrogen oxides	328.6	mg/Nm3	IS 11255 (Part 7) : 2005
7.	Oxygen	10.2	% v/v	IS 13270 : 1992
8.	Particulate Matters	20.1	mg/Nm3	IS : 11255 (Part I): 1985
9.	Quantity of gas flow	2350026	Nm3/hr	IS : 11255 (Part 3) : 2008
10.	Sulphur Dioxide as SO2	511.3	mg/Nm3	IS 11255 (Part 2) : 1985
11.	Temperature of emission	129	Deg C	IS : 11255 (Part 3) : 2008
12.	Velocity	23.181	m/s	IS : 11255 (Part 3) : 2008

For Mitra S. K. Private Limited

B. Dubey
 Prepared By

R. R. R.
 Authorised Signatory

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,
Uttar Pradesh.

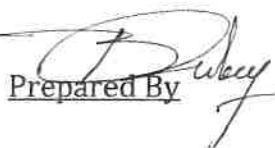
Report No. : MSKPL/ED/2023-24/463145
Date : 04.05.2023
Sample No. : MSKNB/ED/2023-24/04/963E4Q
Sample Description : Stack Monitoring
Date of Receipt of Sample: 24/04/2023
Sample Mark : Thimble No.- 1231 / Unit - II

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

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit – II	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	DG Capacity	:	660 MW	
7.	Load	:	512.8 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 289 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
SL. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	Barometric pressure	742	mm of Hg	IS : 11255 (Part 3) : 2008
2.	Carbon Dioxide	6.8	% v/v	IS 13270 : 1992
3.	Carbon Monoxide	<0.2	% v/v	IS 13270 : 1992
4.	Mercury as Hg (Gaseous)	<0.003	mg/Nm3	USEPA 29 by CVAS: 1996
5.	Moisture content	2.31	%	IS : 11255 (Part 3) : 2008
6.	Nitrogen oxides	410.8	mg/Nm3	IS 11255 (Part 7) : 2005
7.	Oxygen	4.2	% v/v	IS 13270 : 1992
8.	Particulate Matters	31.8	mg/Nm3	IS : 11255 (Part i): 1985
9.	Quantity of gas flow	2234736	Nm3/hr	IS : 11255 (Part 3) : 2008
10.	Sulphur Dioxide as SO2	536.5	mg/Nm3	IS 11255 (Part 2) : 1985
11.	Temperature of emission	126	Deg C	IS : 11255 (Part 3) : 2008
12.	Velocity	23.170	m/s	IS : 11255 (Part 3) : 2008

For Mitra S. K. Private Limited


Prepared By


Authorised Signatory

Above Punjab National Bank
 Maihar Road, NH-7, Kuthia,
 Katni – 483501 (M.P.)
 CIN: U51909WB1956PTC023037
 T : 07622 – 240651, 240919
 E : bmdubey@mitrask.co.in
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TEST REPORT

Name & Address of the Customer :
 Prayagraj Power Generation Company Ltd.
 Vill.: Khan Semra,
 Tehsil : Bara,
 Uttar Pradesh.

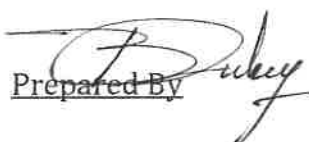
Report No. : MSKPL/ED/2023-24/BPM140
 Date : 04.05.2023
 Sample No. : MSKNB/ED/2023-24/04/D83E34
 Sample Description : Stack Monitoring
 Date of Receipt of Sample: 24/04/2023
 Sample Mark : Thimble No.- 1232 / Unit – III

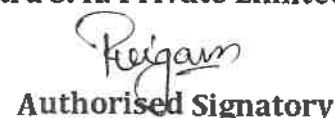
Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit – III	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	DG Capacity	:	660 MW	
7.	Load	:	586 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	274 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 294.5 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
SL. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	Barometric pressure	742	mm of Hg	IS : 11255 (Part 3) : 2008
2.	Carbon Dioxide	10.2	% v/v	IS 13270 : 1992
3.	Carbon Monoxide	<0.2	% v/v	IS 13270 : 1992
4.	Mercury as Hg (Gaseous)	<0.003	mg/Nm3	USEPA 29 by CVAS: 1996
5.	Moisture content	3.7	%	IS : 11255 (Part 3) : 2008
6.	Nitrogen oxides	428.7	mg/Nm3	IS 11255 (Part 7) : 2005
7.	Oxygen	12.4	% v/v	IS 13270 : 1992
8.	Particulate Matters	37.8	mg/Nm3	IS : 11255 (Part I): 1985
9.	Quantity of gas flow	2494688	Nm3/hr	IS : 11255 (Part 3) : 2008
10.	Sulphur Dioxide as SO2	583.5	mg/Nm3	IS 11255 (Part 2) : 1985
11.	Temperature of emission	128	Deg C	IS : 11255 (Part 3) : 2008
12.	Velocity	23.511	m/s	IS : 11255 (Part 3) : 2008

For Mitra S. K. Private Limited

Prepared By 


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Above Punjab National Bank
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CIN : U51909WB1956PTC023037



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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Uttar Pradesh.

Report No. : MSKPL/ED/2023-24/3BF32G
Date : 05.06.2023
Sample No. : MSKNB/ED/2023-24/05/8G6D72
Sample Description : Stack Monitoring
Date of Receipt of Sample: 27/05/2023
Sample Mark : Thimble No.- 1305 / Unit - I

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

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit - I	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	DG Capacity	:	660 MW	
7.	Load	:	617.6 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal		2.	Fuel consumption : 327 Tons/Hr.
D. Results of Sampling & Analysis of Gaseous Emission :				
SL No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	Barometric pressure	742	mm of Hg	IS : 11255 (Part 3) : 2008
2.	Carbon Dioxide	8.6	% v/v	IS 13270 : 1992
3.	Carbon Monoxide	<0.2	% v/v	IS 13270 : 1992
4.	Mercury as Hg (Gaseous)	<0.003	mg/Nm3	USEPA 29 by CVAS: 1996
5.	Moisture content	2.3	%	IS : 11255 (Part 3) : 2008
6.	Nitrogen oxides	362.5	mg/Nm3	IS 11255 (Part 7) : 2005
7.	Oxygen	6.4	% v/v	IS 13270 : 1992
8.	Particulate Matters	25.7	mg/Nm3	IS : 11255 (Part I): 1985
9.	Quantity of gas flow	2550608	Nm3/hr	IS : 11255 (Part 3) : 2008
10.	Sulphur Dioxide as SO2	494.0	mg/Nm3	IS 11255 (Part 2) : 1985
11.	Temperature of emission	132	Deg C	IS : 11255 (Part 3) : 2008
12.	Velocity	23.64	m/s	IS : 11255 (Part 3) : 2008

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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Uttar Pradesh.

Report No. : MSKPL/ED/2023-24/PEF322
Date : 05.06.2023
Sample No. : MSKNB/ED/2023-24/05/HX6D6L
Sample Description : Stack Monitoring
Date of Receipt of Sample: 27/05/2023
Sample Mark : Thimble No.- 920 / Unit - II

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

ANALYSIS RESULT

ANALYSIS REPORT				
A. General Information About Stack :				
1.	Stack connected to	:	Unit – II	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	DG Capacity	:	660 MW	
7.	Load	:	372.4 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 229.6 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
SL No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	Barometric pressure	742	mm of Hg	IS : 11255 (Part 3) : 2008
2.	Carbon Dioxide	10.2	% v/v	IS 13270 : 1992
3.	Carbon Monoxide	<0.2	% v/v	IS 13270 : 1992
4.	Mercury as Hg (Gaseous)	<0.003	mg/Nm3	USEPA 29 by CVAS: 1996
5.	Moisture content	2.2	%	IS : 11255 (Part 3) : 2008
6.	Nitrogen oxides	377.6	mg/Nm3	IS 11255 (Part 7) : 2005
7.	Oxygen	6.4	% v/v	IS 13270 : 1992
8.	Particulate Matters	25.2	mg/Nm3	IS : 11255 (Part I): 1985
9.	Quantity of gas flow	2561074	Nm3/hr	IS : 11255 (Part 3) : 2008
10.	Sulphur Dioxide as SO2	525.1	mg/Nm3	IS 11255 (Part 2) : 1985
11.	Temperature of emission	134	Deg C	IS : 11255 (Part 3) : 2008
12.	Velocity	23.56	m/s	IS : 11255 (Part 3) : 2008

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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Uttar Pradesh.

Report No. : MSKPL/ED/2023-24/RN232K
Date : 05.06.2023
Sample No. : MSKNB/ED/2023-24/05/RC6D89
Sample Description : Stack Monitoring
Date of Receipt of Sample : 27/05/2023
Sample Mark : Thimble No.- 986 / Unit - III

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

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit – III	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	DG Capacity	:	660 MW	
7.	Load	:	524 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 305.5 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
SL No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	Barometric pressure	742	mm of Hg	IS : 11255 (Part 3) : 2008
2.	Carbon Dioxide	10.2	% v/v	IS 13270 : 1992
3.	Carbon Monoxide	<0.2	% v/v	IS 13270 : 1992
4.	Mercury as Hg (Gaseous)	<0.003	mg/Nm ³	USEPA 29 by CVAS: 1996
5.	Moisture content	2.6	%	IS : 11255 (Part 3) : 2008
6.	Nitrogen oxides	340.6	mg/Nm ³	IS 11255 (Part 7) : 2005
7.	Oxygen	8.4	% v/v	IS 13270 : 1992
8.	Particulate Matters	35.1	mg/Nm ³	IS : 11255 (Part I): 1985
9.	Quantity of gas flow	2551809	Nm ³ /hr	IS : 11255 (Part 3) : 2008
10.	Sulphur Dioxide as SO ₂	503.3	mg/Nm ³	IS 11255 (Part 2) : 1985
11.	Temperature of emission	141	Deg C	IS : 11255 (Part 3) : 2008
12.	Velocity	24.07	m/s	IS : 11255 (Part 3) : 2008

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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Uttar Pradesh.

Report No. : MSKPL/ED/2023-24/7LKF3U
Date : 18.07.2023
Sample No. : MSKNB/ED/2023-24/07/SD10EM
Sample Description : Stack Monitoring
Date of Receipt of Sample : 10/07/2023
Sample Mark : Thimble No.- 1303 / Unit – III

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

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit – III	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	Boiler Capacity	:	660 MW	
7.	Load	:	585 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 366.8 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
SL. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	Barometric pressure	742	mm of Hg	IS : 11255 (Part 3) : 2008
2.	Carbon Dioxide	8.2	% v/v	IS 13270 : 1992
3.	Carbon Monoxide	<0.2	% v/v	IS 13270 : 1992
4.	Mercury as Hg (Gaseous)	<0.003	mg/Nm3	USEPA 29 by CVAS: 1996
5.	Moisture content	<2.0	%	IS : 11255 (Part 3) : 2008
6.	Nitrogen Oxides as NO2	321.6	mg/Nm3	IS 11255 (Part 7) : 2005
7.	Oxygen	6.8	% v/v	IS 13270 : 1992
8.	Particulate Matters	35	mg/Nm3	IS : 11255 (Part I): 1985
9.	Quantity of gas flow	2568728	Nm3/hr	IS : 11255 (Part 3) : 2008
10.	Sulphur Dioxide as SO2	518.1	mg/Nm3	IS 11255 (Part 2) : 1985
11.	Temperature of emission	130	Deg C	IS : 11255 (Part 3) : 2008
12.	Velocity	23.26	m/s	IS : 11255 (Part 3) : 2008

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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Uttar Pradesh.

Report No. : MSKPL/ED/2023-24/JXAF33
Date : 18.07.2023
Sample No. : MSKNB/ED/2023-24/07/EB10FP
Sample Description : Stack Monitoring
Date of Receipt of Sample: 10/07/2023
Sample Mark : Thimble No.- 1048 / Unit - I

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

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit - I	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	Boiler Capacity	:	660 MW	
7.	Load	:	606 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 369 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
SL. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	Barometric pressure	742	mm of Hg	IS : 11255 (Part 3) : 2008
2.	Carbon Dioxide	10.2	% v/v	IS 13270 : 1992
3.	Carbon Monoxide	<0.2	% v/v	IS 13270 : 1992
4.	Mercury as Hg (Gaseous)	<0.003	mg/Nm3	USEPA 29 by CVAS: 1996
5.	Moisture content	2.13	%	IS : 11255 (Part 3) : 2008
6.	Nitrogen Oxides as NO2	374.7	mg/Nm3	IS 11255 (Part 7) : 2005
7.	Oxygen	8.6	% v/v	IS 13270 : 1992
8.	Particulate Matters	32	mg/Nm3	IS : 11255 (Part I): 1985
9.	Quantity of gas flow	2616008	Nm3/hr	IS : 11255 (Part 3) : 2008
10.	Sulphur Dioxide as SO2	536.0	mg/Nm3	IS 11255 (Part 2) : 1985
11.	Temperature of emission	131	Deg C	IS : 11255 (Part 3) : 2008
12.	Velocity	23.85	m/s	IS : 11255 (Part 3) : 2008

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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Uttar Pradesh.

Report No. : MSKPL/ED/2023-24/GR2BBY
Date : 24.08.2023
Sample No. : MSKNB/ED/2023-24/08/R1F96
Sample Description : Stack Monitoring
Date of Receipt of Sample: 16/08/2023
Job No. : EDN/ATM/KAT-2023/VFBQ11
Sample Mark : Thimble No.- 1598 / Unit – III

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

ANALYSIS RESULT

ANALYSIS REPORT

A.	General Information About Stack :			
1.	Stack connected to	:	Unit - III	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	Boller Capacity	:	660 MW	
7.	Load	:	484 (M.W)	
B.	Physical Characteristics of Stack :			
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C.	Analysis / Characteristics of Stack :			
1.	Fuel used : Coal		2.	Fuel consumption : 271 Tons/Hr.
D.	Results of Sampling & Analysis of Gaseous Emission :			
SL. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	Barometric pressure	742	mm of Hg	IS : 11255 (Part 3) : 2008
2.	Carbon Dioxide	12.6	% v/v	IS 13270 : 1992
3.	Carbon Monoxide	<0.2	% v/v	IS 13270 : 1992
4.	Mercury as Hg (Gaseous)	<0.003	mg/Nm3	USEPA 29 by CVAS: 1996
5.	Moisture content	2.5	%	IS : 11255 (Part 3) : 2008
6.	Nitrogen oxides	388.3	mg/Nm3	IS 11255 (Part 7) : 2005
7.	Oxygen	10.8	% v/v	IS 13270 : 1992
8.	Particulate Matters	31.3	mg/Nm3	IS : 11255 (Part I): 1985
9.	Quantity of gas flow	2595065	Nm3/hr	IS : 11255 (Part 3) : 2008
10.	Sulphur Dioxide as SO2	505.4	mg/Nm3	IS 11255 (Part 2) : 1985
11.	Temperature of emission	123	Deg C	IS : 11255 (Part 3) : 2008
12.	Velocity	23.40	m/s	IS : 11255 (Part 3) : 2008

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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Uttar Pradesh.

Report No. : MSKPL/ED/2023-24/3S2BB0
Date : 24.08.2023
Sample No. : MSKNB/ED/2023-24/08/GX1F8N
Sample Description : Stack Monitoring
Date of Receipt of Sample: 16/08/2023
Job No. : EDN/ATM/KAT-2023/VFBQ11
Sample Mark : Thimble No.- 1582 / Unit – II

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

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit - II	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	Boiler Capacity	:	660 MW	
7.	Load	:	496 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 269 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
SL. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	Barometric pressure	742	mm of Hg	IS : 11255 (Part 3) : 2008
2.	Carbon Dioxide	10.2	% v/v	IS 13270 : 1992
3.	Carbon Monoxide	<0.2	% v/v	IS 13270 : 1992
4.	Mercury as Hg (Gaseous)	<0.003	mg/Nm3	USEPA 29 by CVAS: 1996
5.	Moisture content	<2.0	%	IS : 11255 (Part 3) : 2008
6.	Nitrogen oxides	362.2	mg/Nm3	IS 11255 (Part 7) : 2005
7.	Oxygen	6.4	% v/v	IS 13270 : 1992
8.	Particulate Matters	32.6	mg/Nm3	IS : 11255 (Part I): 1985
9.	Quantity of gas flow	2637493	Nm3/hr	IS : 11255 (Part 3) : 2008
10.	Sulphur Dioxide as SO2	490.1	mg/Nm3	IS 11255 (Part 2) : 1985
11.	Temperature of emmission	122	Deg C	IS : 11255 (Part 3) : 2008
12.	Velocity	23.27	m/s	IS : 11255 (Part 3) : 2008

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,
 Uttar Pradesh.

Report No. : MSKPL/ED/2023-24/682BBC
 Date : 24.08.2023
 Sample No. : MSKNB/ED/2023-24/08/7X1F7F
 Sample Description : Stack Monitoring
 Date of Receipt of Sample: 16/08/2023
 Job No. : EDN/ATM/KAT-2023/VFBQ11
 Sample Mark : Thimble No.- 1042 / Unit - I

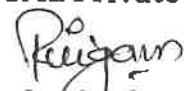
Ref. No. & Date : 9200000102, Dt -24/05/2021.

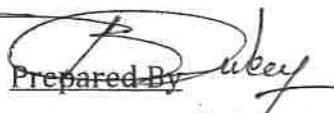
ANALYSIS RESULT

ANALYSIS REPORT

A. General Information About Stack :				
1.	Stack connected to	:	Unit - I	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	Boiler Capacity	:	660 MW	
7.	Load	:	486 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 287 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
SL. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	Barometric pressure	742	mm of Hg	IS : 11255 (Part 3) : 2008
2.	Carbon Dioxide	12.4	% v/v	IS 13270 : 1992
3.	Carbon Monoxide	<0.2	% v/v	IS 13270 : 1992
4.	Mercury as Hg (Gaseous)	<0.003	mg/Nm3	USEPA 29 by CVAS: 1996
5.	Moisture content	3.3	%	IS : 11255 (Part 3) : 2008
6.	Nitrogen oxides	328.4	mg/Nm3	IS 11255 (Part 7) : 2005
7.	Oxygen	8.6	% v/v	IS 13270 : 1992
8.	Particulate Matters	26.97	mg/Nm3	IS : 11255 (Part I): 1985
9.	Quantity of gas flow	2556427	Nm3/hr	IS : 11255 (Part 3) : 2008
10.	Sulphur Dioxide as SO2	452.9	mg/Nm3	IS 11255 (Part 2) : 1985
11.	Temperature of emission	120	Deg C	IS : 11255 (Part 3) : 2008
12.	Velocity	23.12	m/s	IS : 11255 (Part 3) : 2008

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,
Uttar Pradesh.

Report No. : MSKPL/ED/2023-24/RV4DCD
Date : 30.09.2023
Sample No. : MSKNB/ED/2023-24/09/TD356B
Sample Description : Stack Monitoring
Date of Receipt of Sample: 20/09/2023
Job No. : EDN/ATM/KAT-2023/6HU71Q
Sample Mark : Thimble No.- 1749 / Unit - III

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

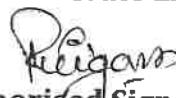
ANALYSIS RESULT

ANALYSIS REPORT

A.	General Information About Stack :			
1.	Stack connected to	:	Unit - III	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	Boiler Capacity	:	660 MW	
7.	Load	:	566 (M.W)	
B.	Physical Characteristics of Stack :			
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C.	Analysis / Characteristics of Stack :			
1.	Fuel used : Coal		2.	Fuel consumption : 344 Tons/Hr.
D.	Results of Sampling & Analysis of Gaseous Emission :			
Sl. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	Barometric pressure	742	mm of Hg	IS : 11255 (Part 3) : 2008
2.	Carbon Dioxide	12.2	% v/v	IS 13270 : 1992
3.	Carbon Monoxide	<0.2	% v/v	IS 13270 : 1992
4.	Mercury as Hg (Gaseous)	<0.003	mg/Nm3	USEPA 29 by CVAS: 1996
5.	Molsture content	<2.0	%	IS : 11255 (Part 3) : 2008
6.	Nitrogen oxides	398.6	mg/Nm3	IS 11255 (Part 7) : 2005
7.	Oxygen	10.4	% v/v	IS 13270 : 1992
8.	Particulate Matters	45.2	mg/Nm3	IS : 11255 (Part I): 1985
9.	Quantity of gas flow	2614673	Nm3/hr	IS : 11255 (Part 3) : 2008
10.	Sulphur Dioxide as SO2	534.3	mg/Nm3	IS 11255 (Part 2) : 1985
11.	Temperature of emission	113	Deg C	IS : 11255 (Part 3) : 2008
12.	Velocity	22.74	m/s	IS : 11255 (Part 3) : 2008

For Mitra S. K. Private Limited

Prepared By 


Authorised Signatory

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,
Uttar Pradesh.

Report No. : MSKPL/ED/2023-24/3T4DCE
Date : 30.09.2023
Sample No. : MSKNB/ED/2023-24/09/4W357Z
Sample Description : Stack Monitoring
Date of Receipt of Sample: 20/09/2023
Job No. : EDN/ATM/KAT-2023/6HU71Q
Sample Mark : Thimble No.- 1757 / Unit – I

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

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit - I	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	Boiler Capacity	:	660 MW	
7.	Load	:	470 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal		2.	Fuel consumption : 301 Tons/Hr.
D. Results of Sampling & Analysis of Gaseous Emission :				
SL. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	Barometric pressure	742	mm of Hg	IS : 11255 (Part 3) : 2008
2.	Carbon Dioxide	8.4	% v/v	IS 13270 : 1992
3.	Carbon Monoxide	<0.2	% v/v	IS 13270 : 1992
4.	Mercury as Hg (Gaseous)	<0.003	mg/Nm3	USEPA 29 by CVAS: 1996
5.	Moisture content	2.2	%	IS : 11255 (Part 3) : 2008
6.	Nitrogen oxides	386.4	mg/Nm3	IS 11255 (Part 7) : 2005
7.	Oxygen	6.8	% v/v	IS 13270 : 1992
8.	Particulate Matters	27.4	mg/Nm3	IS : 11255 (Part I): 1985
9.	Quantity of gas flow	2626887	Nm3/hr	IS : 11255 (Part 3) : 2008
10.	Sulphur Dioxide as SO2	517.1	mg/Nm3	IS 11255 (Part 2) : 1985
11.	Temperature of emission	115	Deg C	IS : 11255 (Part 3) : 2008
12.	Velocity	22.96	m/s	IS : 11255 (Part 3) : 2008

For Mitra S. K. Private Limited

Prepared By

Authorised Signatory

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Above Punjab National Bank
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 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,
 Uttar Pradesh.

Report No. : MSKPL/ED/2023-24/1L4DC7
 Date : 30.09.2023
 Sample No. : MSKNB/ED/2023-24/09/N6355D
 Sample Description : Stack Monitoring
 Date of Receipt of Sample: 20/09/2023
 Job No. : EDN/ATM/KAT-2023/6HU71Q
 Sample Mark : Thimble No.- 1750 / Unit – II

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

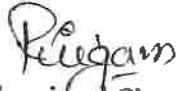
ANALYSIS RESULT

ANALYSIS REPORT

A. General Information About Stack :				
1.	Stack connected to	:	Unit - II	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	Boiler Capacity	:	660 MW	
7.	Load	:	539 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal		2.	Fuel consumption : 341 Tons/Hr.
D. Results of Sampling & Analysis of Gaseous Emission :				
SL. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	Barometric pressure	742	mm of Hg	IS : 11255 (Part 3) : 2008
2.	Carbon Dioxide	8.6	% v/v	IS 13270 : 1992
3.	Carbon Monoxide	<0.2	% v/v	IS 13270 : 1992
4.	Mercury as Hg (Gaseous)	<0.003	mg/Nm3	USEPA 29 by CVAS: 1996
5.	Moisture content	3.2	%	IS : 11255 (Part 3) : 2008
6.	Nitrogen oxides	418.7	mg/Nm3	IS 11255 (Part 7) : 2005
7.	Oxygen	6.4	% v/v	IS 13270 : 1992
8.	Particulate Matters	24.8	mg/Nm3	IS : 11255 (Part I): 1985
9.	Quantity of gas flow	2493775	Nm3/hr	IS : 11255 (Part 3) : 2008
10.	Sulphur Dioxide as SO2	563.8	mg/Nm3	IS 11255 (Part 2) : 1985
11.	Temperature of emission	119	Deg C	IS : 11255 (Part 3) : 2008
12.	Velocity	22.44	m/s	IS : 11255 (Part 3) : 2008

For Mitra S. K. Private Limited

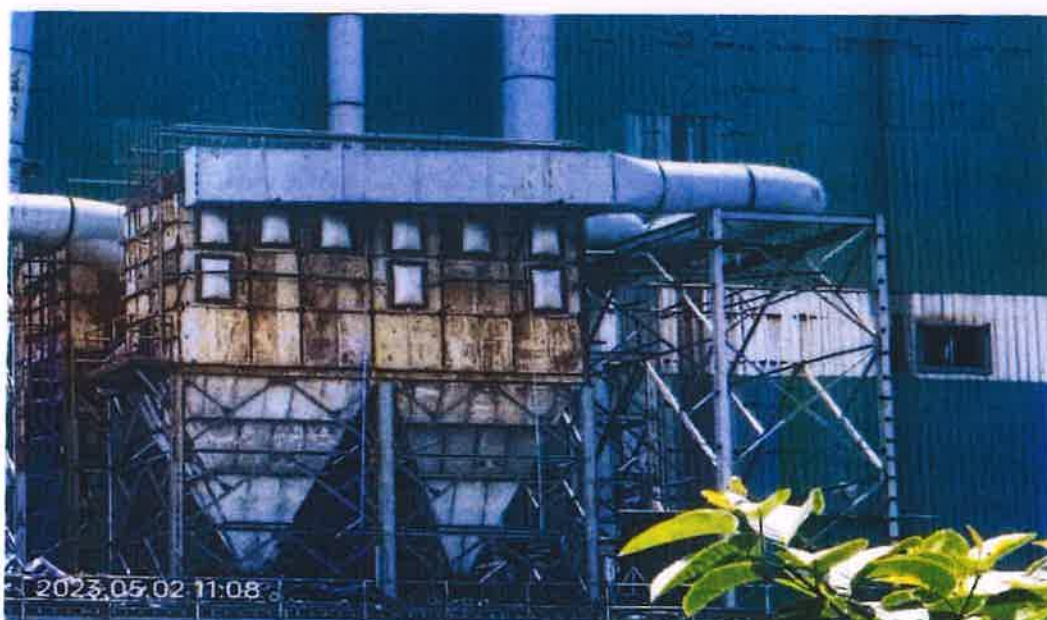
Prepared By 


 Authorised Signatory

Photographs of the pollution control equipment, dust suppression system



ESP installed for particulate emission control



Bag filter installed for particulate emission control



Bag filter installed for particulate emission control



Fogging system at wagon tippler area



Dust suppression system installed at coal yard



Water sprinkling through tankers in ash pond bund



Mitra S. K. Private Limited

Address of Laboratory :

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Email: udayanlab@mitrask.com



TC-6950



Scan for Portal

ULR: TC 695023000004790F

TEST REPORT

Name & Address of Customer :

Prayagraj Power Generation Company Ltd.

Vill : Khan Semra,

Tehsil : Bara,

Dist : Prayagraj Uttar Pradesh India Pin 212107

Report No. :

MSKPLED/2023-24/XXBEFL

Date :

06/07/2023

Sample No. :

MSKNB/ED/2023-24/06/KP412J

Date of receipt of sample:

26/06/2023

Date(s) of performance:

26/06/2023 - 06/07/2023

Location of performance of

Permanent Facility

Reference No. & Date :

920030102, Date - 24/05/2021

Discipline:

Chemical

I/We hereby certify that the following sample Drawn by us has been analyzed with the following results.

1. Group	Pollution & Environment
2. Description of sample	Effluent Water
3. Unique Identification of sample(if any)	ASH POND WATER
4. Date of sampling	25/06/2023
5. Place of sampling	Prayagraj Power Generation Company Ltd. Vill : Khan Semra, Tehsil : Bara, Dist : Prayagraj, Uttar Pradesh India Pin 212107
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7. Sampling Plan & Method used	APHA 23rd edition 2017
8. Identification of the personnel performing sampling by MSK	RAMESH KUMAR NISHAD
9. Field Equipments Used	N/A

Report No. : MSKPLED/2023-24/XXBEFL

Sample No. : MSKNB/ED/2023-24/06/KP412J

RESULT

Chemical

Sl No.	Parameter	UOM	Method	Result
1	Arsenic (as As)	mg/l	APHA (23rd Edition) 3120 B : 2017	<0.005
2	Copper (as Cu)	mg/l	APHA (23rd Edition) 3120 B : 2017	<0.05
3	Lead (as Pb)	mg/l	APHA (23rd Edition) 3120 B : 2017	<0.05
4	Mercury (as Hg)	mg/l	APHA (23rd Edition) 3112 B : 2017	<0.001
5	Nickel (as Ni)	mg/l	APHA (23rd Edition) 3120 B : 2017	<0.05
6	Oil and Grease	mg/l	APHA (23rd Edition) 5520B : 2017	<5.0
7	Total Suspended Solid (as TSS)	mg/l	APHA (23rd Edition) 2540D : 2017	38
8	pH value	None	APHA (23rd Edition) 4500 -H-B : 2017	8.63 at 25 deg C

Opinion : NA

Statement of Conformity : NA

— END —

Reviewed By:

Signature:

Name:

Designation: Technical In Charge

Authorized Signatory:

Signature:

Name:

Designation: Lab In Charge

No results relate only to the limits tested.

This Test Report shall not be reproduced except in full, without the permission of Mitra S. K. Private Limited.

The reserved part of each part of the chemical analysis (As per - potential sample) of Effluent Water shall be retained for 15 days from the date of issue of the Test Report. The sample (As per) shall be retained 15 days from the date of issue of the Test Report.

The reserved part of sample(s) for Microbiological analysis (BOD, Solid & Liquid Wastes) shall be retained for 15 days as per CPOD guidelines (For 1 month from the date of issue of the Test Report).

The reserved part of sample(s) for Microbiological analysis (BOD, Solid & Liquid Wastes) shall be retained for 15 days from the date of issue of the Test Report.

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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/2023-24/GDW/0011
Date : 03/05/2023
Sample No. : MSKGL/ED/2023-24/04/01398
Date Of Sample : 03/04/2023
Sample Description : Ground Drinking Water
Sample Mark : HP-3 JORVAT VILLAGE

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)	202	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)	84	75	200	mg/l	APHA (23rd Edition) 3500 Ca B, 2017
09.	Chloride (as Cl)	169	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)	0.82	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 Edtm-2017, 3500 Cr B
15.	Iron (as Fe)	0.23	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)	19	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

Mitra S. K. Private Limited

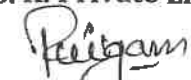


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sknigam@mitrask.co.in

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
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)	176	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
26.	Total Hardness (as CaCO ₃)	281	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	27		NA	MPN/100 ml	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)	634	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	6	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	7.36 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

Above Punjab National Bank
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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/КТN/2023-24/GDW/0010
Date : 03/05/2023
Sample No. : MSKGL/ED/2023-24/04/01397
Date Of Sample : 03/04/2023
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)	149	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)	51	75	200	mg/l	APHA (23rd Edition) 3500 Ca B, 2017
09.	Chloride (as Cl)	74	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)	0.22	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)	0.22	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)	26	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)	24	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017

Mitra S. K. Private Limited



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sknigam@mitrask.co.in

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
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)	39	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
26.	Total Hardness (as CaCO ₃)	121	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	18		NA	MPN/100 ml	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)	283	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	<1.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	7.15 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

Above Punjab National Bank
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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/2023-24/GDW/0028
Date : 26/05/2023
Sample No. : MSKGL/ED/2023-24/05/00763
Date Of Sample : 10/05/2023
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)	122	200	600	mg/l	APHA (23rd Edition) 2320B 2017_(O)
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition) 5540 C, 2017_(O)
04.	Arsenic (as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition) 2540C_(O)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017_(O)
08.	Calcium (as Ca)	39	75	200	mg/l	APHA (23rd Edition) 3500 Ca B, 2017_(O)
09.	Chloride (as Cl)	47	250	1000	mg/l	APHA (23rd Edition) 4500-Cl B 2017_(O)
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)
11.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition) 4500 CN- F 2017_(O)
12.	Fluoride (as F)	0.29	1.0	1.5	mg/l	APHA (23rd Edition) 4500 - F C/D, 2017_(O)
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014_(O)
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B_(O)
15.	Iron (as Fe)	0.17	0.3	No Relaxation	mg/l	APHA (23rd Edition) 3500 Fe B 2017_(O)
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017_(O)
17.	Magnesium (as Mg)	14	30	100	mg/l	APHA (23rd Edition) 3500 Mg B, 2017_(O)
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)

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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014_(O)
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
22.	Nitrate (as NO ₃)	20	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017_(O)
23.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)_(O)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
25.	Sulphate (as SO ₄)	23	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017_(O)
26.	Total Hardness (as CaCO ₃)	112	200	600	mg/l	APHA (23rd Edition) 2340 C 2017_(O)
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017_(O)
28.	E.coli	Not Detected		NA	/100ml	APHA 23rd Edition 9221 F_(O)
29.	Total coliform bacteria	<1.8		NA	MPN/100 ml	APHA 23rd Edition 9221 B_(O)
30.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017_(O)
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B_(O)
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012_(O)
33.	Total Dissolved Solids (as TDS)	234	500	2000	mg/l	APHA (23rd Edition) 2540C_(O)
34.	Turbidity	<1.0	1	5	N.T.U.	APHA (23rd Edition) 2130B_(O)
35.	pH	7.18 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B_(O)

For Mitra S. K. Private Limited



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Authorised Signatory

Prepared By: *Debey*

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/2023-24/GDW/0032
Date : 26/05/2023
Sample No. : MSKGL/ED/2023-24/05/00767
Date Of Sample : 10/05/2023
Sample Description : Ground Drinking Water
Sample Mark : HP-6 JORVAT VILLAGE

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)	185	200	600	mg/l	APHA (23rd Edition) 2320B 2017_(O)
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition) 5540 C, 2017_(O)
04.	Arsenic (as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition) 2540C_(O)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017_(O)
08.	Calcium (as Ca)	67	75	200	mg/l	APHA (23rd Edition) 3500 Ca B, 2017_(O)
09.	Chloride (as Cl)	70	250	1000	mg/l	APHA (23rd Edition) 4500-Cl B 2017_(O)
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)
11.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition) 4500 CN- F 2017_(O)
12.	Fluoride (as F)	0.65	1.0	1.5	mg/l	APHA (23rd Edition) 4500 - F C/D, 2017_(O)
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014_(O)
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B_(O)
15.	Iron (as Fe)	0.21	0.3	No Relaxation	mg/l	APHA (23rd Edition) 3500 Fe B 2017_(O)
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017_(O)
17.	Magnesium (as Mg)	27	30	100	mg/l	APHA (23rd Edition) 3500 Mg B, 2017_(O)
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)

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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014_(O)
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
22.	Nitrate (as NO ₃)	9.8	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017_(O)
23.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)_(O)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
25.	Sulphate (as SO ₄)	69	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017_(O)
26.	Total Hardness (as CaCO ₃)	361	200	600	mg/l	APHA (23rd Edition) 2340 C 2017_(O)
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017_(O)
28.	E.coli	Not Detected		NA	/100ml	APHA 23rd Edition 9221 F_(O)
29.	Total coliform bacteria	<1.8		NA	MPN/100 ml	APHA 23rd Edition 9221 B_(O)
30.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017_(O)
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B_(O)
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012_(O)
33.	Total Dissolved Solids (as TDS)	491	500	2000	mg/l	APHA (23rd Edition) 2540C_(O)
34.	Turbidity	<1.0	1	5	N.T.U.	APHA (23rd Edition) 2130B_(O)
35.	pH	7.48 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B_(O)

Prepared By:

For Mitra S. K. Private Limited



Authorised Signatory

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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/2023-24/GDW/0052
Date : 06/07/2023
Sample No. : MSKGL/ED/2023-24/06/01528
Date Of Sample : 25/06/2023
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)	141	200	600	mg/l	APHA (23rd Edition) 2320B 2017_(O)
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition) 5540 C, 2017_(O)
04.	Arsenic (as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition) 2540C_(O)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017_(O)
08.	Calcium (as Ca)	64	75	200	mg/l	APHA (23rd Edition) 3500 Ca B, 2017_(O)
09.	Chloride (as Cl)	73	250	1000	mg/l	APHA (23rd Edition) 4500-Cl B 2017_(O)
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition) 4500 CN- F 2017_(O)
12.	Fluoride (as F)	0.44	1.0	1.5	mg/l	APHA (23rd Edition) 4500 - F C/D, 2017_(O)
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 RfM:2014_(O)
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B_(O)
15.	Iron (as Fe)	0.24	0.3	No Relaxation	mg/l	APHA (23rd Edition) 3500 Fe B 2017_(O)
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017_(O)
17.	Magnesium (as Mg)	20	30	100	mg/l	APHA (23rd Edition) 3500 Mg B, 2017_(O)
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)

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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014_(O)
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
22.	Nitrate (as NO3)	25	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO3-E, 2017_(O)
23.	Phenolic Compounds (as C6H5OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)_(O)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
25.	Sulphate (as SO4)	31	200	400	mg/l	APHA (23rd Edition) 4500-SO4 E 2017_(O)
26.	Total Hardness (as CaCO3)	146	200	600	mg/l	APHA (23rd Edition) 2340 C 2017_(O)
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017_(O)
28.	E.coli	Not Detected		NA	/100ml	APHA 23rd Edition 9221 F_(O)
29.	Total coliform bacteria	<2		NA	MPN/100 ml	APHA 23rd Edition 9221 B_(O)
30.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017_(O)
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B_(O)
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012_(O)
33.	Total Dissolved Solids (as TDS)	277	500	2000	mg/l	APHA (23rd Edition) 2540C_(O)
34.	Turbidity	3.8	1	5	N.T.U.	APHA (23rd Edition) 2130B_(O)
35.	pH	7.22 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B_(O)

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/2023-24/GDW/0056
Date : 06/07/2023
Sample No. : MSKGL/ED/2023-24/06/01532
Date Of Sample : 25/06/2023
Sample Description : Ground Drinking Water
Sample Mark : HP-6 LOHGARA VILLAGE

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)	176	200	600	mg/l	APHA (23rd Edition) 2320B 2017_(O)
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_(O)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017_(O)
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_(O)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_(O)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)2540C_(O)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
08.	Calcium (as Ca)	73	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017_(O)
09.	Chloride (as Cl)	132	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017_(O)
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_(O)
11.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017_(O)
12.	Fluoride (as F)	0.56	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017_(O)
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014_(O)
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B_(O)
15.	Iron (as Fe)	0.25	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017_(O)
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
17.	Magnesium (as Mg)	22	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017_(O)
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_(O)

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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014_(O)
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
22.	Nitrate (as NO ₃)	18	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017_(O)
23.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)_(O)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
25.	Sulphate (as SO ₄)	71	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017_(O)
26.	Total Hardness (as CaCO ₃)	228	200	600	mg/l	APHA (23rd Edition) 2340 C 2017_(O)
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017_(O)
28.	E.coli	Not Detected		NA	/100ml	APHA 23rd Edition 9221 F_(O)
29.	Total coliform bacteria	<1.8		NA	MPN/100 ml	APHA 23rd Edition 9221 B_(O)
30.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017_(O)
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B_(O)
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012_(O)
33.	Total Dissolved Solids (as TDS)	422	500	2000	mg/l	APHA (23rd Edition) 2540C_(O)
34.	Turbidity	<1.0	1	5	N.T.U.	APHA (23rd Edition) 2130B_(O)
35.	pH	7.36 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B_(O)

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/2023-24/GDW/0063
Date : 18/07/2023
Sample No. : MSKGL/ED/2023-24/07/00854
Date Of Sample : 10/07/2023
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)	166	200	600	mg/l	APHA (23rd Edition) 2320B 2017_(O)
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition) 5540 C, 2017_(O)
04.	Arsenic (as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition) 2540C_(O)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017_(O)
08.	Calcium (as Ca)	57	75	200	mg/l	APHA (23rd Edition) 3500 Ca B, 2017_(O)
09.	Chloride (as Cl)	61	250	1000	mg/l	APHA (23rd Edition) 4500-Cl B 2017_(O)
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition) 4500 CN- F 2017_(O)
12.	Fluoride (as F)	0.52	1.0	1.5	mg/l	APHA (23rd Edition) 4500 - F C/D, 2017_(O)
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014_(O)
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B_(O)
15.	Iron (as Fe)	0.21	0.3	No Relaxation	mg/l	APHA (23rd Edition) 3500 Fe B 2017_(O)
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017_(O)
17.	Magnesium (as Mg)	24	30	100	mg/l	APHA (23rd Edition) 3500 Mg B, 2017_(O)
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)

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

Sl. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014_(O)
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
22.	Nitrate (as NO3)	30	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO3-E, 2017_(O)
23.	Phenolic Compounds (as C6H5OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)_(O)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
25.	Sulphate (as SO4)	56	200	400	mg/l	APHA (23rd Edition) 4500-SO4 E 2017_(O)
26.	Total Hardness (as CaCO3)	171	200	600	mg/l	APHA (23rd Edition) 2340 C 2017_(O)
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017_(O)
28.	E.coli	Not Detected		NA	/100ml	APHA 23rd Edition 9221 F_(O)
29.	Total coliform bacteria	<2		NA	MPN/100 ml	APHA 23rd Edition 9221 B_(O)
30.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017_(O)
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B_(O)
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012_(O)
33.	Total Dissolved Solids (as TDS)	229	500	2000	mg/l	APHA (23rd Edition) 2540C_(O)
34.	Turbidity	3.4	1	5	N.T.U.	APHA (23rd Edition) 2130B_(O)
35.	pH	7.23 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B_(O)

For Mitra S. K. Private Limited



Authorised Signatory

Prepared By: *[Signature]*

TEST REPORT**Name & Address of Customer :****Prayagraj Power Generation Company Ltd.**
 Vill.: Khan Semra,
 Tehsil : Bara,
 Dist.: Prayagraj
 (Uttar Pradesh) [India]
 {Pin Code - 212107}
Report No. :

MSKGL/ED/2023-24/000964

Date :

28/08/2023

Job No. :

ED/WAT/KAT-2023/00015

Sample No. :

MSKGL/ED/2023-24/08/01109

Drawn/Submitted on :

14/08/2023

Reference No. & Date :

9200000102, Date - 24/05/2021

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

1. Description of sample (As declared by customer)	Ground Water 14-08-23
2. Sample Mark (if any, given by the customer)	HP-2 KAPARI PANCHAYAT BHAWAN
3. Date of sampling	14/08/2023

Report No. : MSKGL/ED/2023-24/000964**Sample No. :** MSKGL/ED/2023-24/08/01109**ANALYSIS RESULT**

Chemical						
Sl No.	Test Parameters	Unit	Test Method	Desirable Limit	Permissible	Result
1	Colour	Hazen	APHA (23rd Edition) 2120B : 2017	5	15	<1.0
2	Odour	None	APHA (23rd Edition) 2150B : 2017	Agreeable	Agreeable	Agreeable
3	pH value	None	APHA (23rd Edition) 4500 - H-B : 2017	6.5-8.5	No Relaxation	7.31 at 25 deg C
4	Turbidity	N.T.U.	APHA (23rd Edition) 2130B : 2017	1	5	3.1
5	Total Dissolved Solids (as TDS)	mg/l	APHA 23ND EDITION, 2540 C _(O)	500	2000	245
6	Aluminium (as Al)	mg/l	APHA (23rd Edition) 3120 B : 2017	0.03	0.2	<0.01
7	Anionic Detergents (as MBAS)	mg/l	APHA (23rd Edition) 5540 C _(O) , 2017_(O)	0.2	1.0	<0.02
8	Barium (as Ba)	mg/l	APHA (23rd Edition) 3120B : 2017 (ICP OES)_(O)	0.7	No Relaxation	<0.05
9	Boron (as B)	mg/l	APHA (23 rd Edition) 2540C _(O)	0.5	1.0	<0.5
10	Calcium (as Ca)	mg/l	APHA (23rd Edition) 3500 Ca B, 2017_(O)	75	200	44
11	Chloride (as Cl)	mg/l	APHA (23rd Edition) 4500-Cl B : 2017_(O)	250	1000	76
12	Copper (as Cu)	mg/l	APHA (23rd Edition) 3120 B : 2017	0.05	1.5	<0.02
13	Fluoride (as F)	mg/l	APHA (23rd Edition) 4500 - F C/D, 2017_(O)	1.0	1.5	0.82
14	Free Residual Chlorine	mg/l	IS 3025 (Part 26)-1986 Rffm:2014_(O)	0.2	1.0	<0.1
15	Iron (as Fe)	mg/l	APHA (23rd Edition) 3500 Fe B : 2017	0.3	No Relaxation	0.24
16	Magnesium (as Mg)	mg/l	APHA (23rd Edition) 3500 Mg B, 2017_(O)	30	100	17

* This results relate only to the item(s) tested.

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Report No. : MSKGL/ED/2023-24/000964

Sample No. : MSKGL/ED/2023-24/08/01109

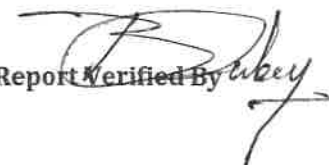
ANALYSIS RESULT

Chemical						
Sl No.	Test Parameters	Unit	Test Method	Desirable Limit	Permissible	Result
17	Manganese (as Mn)	mg/l	APHA (23rd Edition) 3120 B : 2017	0.1	0.3	<0.02
18	Nitrate (as NO ₃)	mg/l	APHA (23rd Edition) 4500 - NO ₃ - E : 2017	45	No Relaxation	38
19	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	APHA (23rd Edition) 5530C : 2017	0.001	0.002	<0.001
20	Selenium (as Se)	mg/l	APHA (23rd Edition) 3120B 2017_(O)	0.01	No Relaxation	<0.005
21	Sulphate (as SO ₄)	mg/l	APHA (23rd Edition) 4500 - SO ₄ - E : 2017	200	400	51
22	Alkalinity (as CaCO ₃)	mg/l	APHA (23rd Edition) 2320B 2017_(O)	200	600	179
23	Total Hardness (as CaCO ₃)	mg/l	APHA (23rd Edition) 2340 C 2017_(O)	200	600	188
24	Cadmium (as Cd)	mg/l	APHA (23rd Edition) 3120B 2017_(O)	0.003	No Relaxation	<0.001
25	Cyanide (as CN)	mg/l	APHA (23rd Edition) 4500 -CN- F: 2017	0.05	No Relaxation	<0.01
26	Lead (as Pb)	mg/l	APHA (23rd Edition) 3120B 2017_(O)	0.01	No Relaxation	<0.005
27	Mercury (as Hg)	mg/l	IS 3025 (Part 48): 1994	0.001	No Relaxation	<0.001
28	Molybdenum (as Mo)	mg/l	APHA (23rd Edition) 3120B 2017_(O)	0.07	No Relaxation	<0.05
29	Nickel (as Ni)	mg/l	APHA (23rd Edition) 3120B 2017_(O)	0.02	No Relaxation	<0.02
30	Arsenic (as As)	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)	0.01	0.05	<0.005
31	Taste	None	IS 3025 (Part 8)-1983 Rffm:2012_(O)			
32	Zinc (as Zn)	mg/l	APHA (23rd Edition) 3120B 2017_(O)	5	15	<0.02
33	Hexavalent Chromium (as Cr+6)	mg/l	APHA (23rd Edition) 3500 Cr B : 2017			<0.01

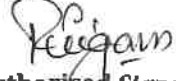
Micro Biology						
Sl No.	Test Parameters	Unit	Test Method	Desirable Limit	Permissible	Result
34	E.coli	/100ml	APHA 23rd Edition 9221 F_(O)		NA	Not Detected
35	Total coliform	MPN/100ml	APHA 23rd Edition 9221 B_(O)		NA	<2

DL : Detection Limit BDL : Below Detection Limit

Opinion :

 Report Verified By 

For Mitra S. K. Private Limited


 Authorised Signatory

- * This results relate only to the item(s) tested.
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TEST REPORT**Name & Address of Customer :****Prayagraj Power Generation Company Ltd.**
 Vill.: Khan Semra,
 Tehsil : Bara,
 Dist.: Prayagraj
 (Uttar Pradesh) [India]
 {Pin Code - 212107}
Report No. :

MSKGL/ED/2023-24/000966

Date :

28/08/2023

Job No. :

ED/WAT/KAT-2023/00015

Sample No. :

MSKGL/ED/2023-24/08/01110

Drawn/Submitted on :

14/08/2023

Reference No. & Date :

9200000102, Date - 24/05/2021

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

1. Description of sample (As declared by customer)	Ground Water 14-08-23
2. Sample Mark (if any, given by the customer)	HP-3 JORVAT VILLAGE
3. Date of sampling	14/08/2023

Report No. : MSKGL/ED/2023-24/000966**Sample No. :** MSKGL/ED/2023-24/08/01110**ANALYSIS RESULT****Chemical**

Sl No.	Test Parameters	Unit	Test Method	Desirable Limit	Permissible	Result
1	Colour	Hazen	APHA (23rd Edition) 2120B : 2017	5	15	<5.0
2	Odour	None	APHA (23rd Edition) 2150B : 2017	Agreeable	Agreeable	Agreeable
3	pH value	None	APHA (23rd Edition) 4500 - H-B : 2017	6.5-8.5	No Relaxation	7.28 at 25 deg C
4	Turbidity	N.T.U.	APHA (23rd Edition) 2130B : 2017	1	5	<1.0
5	Total Dissolved Solids (as TDS)	mg/l	APHA 23ND EDITION, 2540 C_(O)	500	2000	318
6	Aluminium (as Al)	mg/l	APHA (23rd Edition) 3120 B : 2017	0.03	0.2	<0.01
7	Anionic Detergents (as MBAS)	mg/l	APHA (23rd Edition) 5540 C, 2017_(O)	0.2	1.0	<0.02
8	Barium (as Ba)	mg/l	APHA (23rd Edition) 3120B : 2017 (ICP OES)_(O)	0.7	No Relaxation	<0.05
9	Boron (as B)	mg/l	APHA (23 rd Edition) 2540C_(O)	0.5	1.0	<0.5
10	Calcium (as Ca)	mg/l	APHA (23rd Edition) 3500 Ca B, 2017_(O)	75	200	55
11	Chloride (as Cl)	mg/l	APHA (23rd Edition) 4500-Cl B : 2017_(O)	250	1000	137
12	Copper (as Cu)	mg/l	APHA (23rd Edition) 3120 B : 2017	0.05	1.5	<0.02
13	Fluoride (as F)	mg/l	APHA (23rd Edition) 4500 - F C/D, 2017_(O)	1.0	1.5	0.59
14	Free Residual Chlorine	mg/l	IS 3025 (Part 26)-1986 Rffm:2014_(O)	0.2	1.0	<0.1
15	Iron (as Fe)	mg/l	APHA (23rd Edition) 3500 Fe B : 2017	0.3	No Relaxation	0.12
16	Magnesium (as Mg)	mg/l	APHA (23rd Edition) 3500 Mg B, 2017_(O)	30	100	22

* This results relate only to the item(s) tested.

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ANALYSIS RESULT

Chemical						
Sl No.	Test Parameters	Unit	Test Method	Desirable Limit	Permissible	Result
17	Manganese (as Mn)	mg/l	APHA (23rd Edition) 3120 B : 2017	0.1	0.3	<0.02
18	Nitrate (as NO ₃)	mg/l	APHA (23rd Edition) 4500 - NO ₃ - E : 2017	45	No Relaxation	28
19	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	APHA (23rd Edition) 5530C : 2017	0.001	0.002	<0.001
20	Selenium (as Se)	mg/l	APHA (23rd Edition) 3120B 2017 (O)	0.01	No Relaxation	<0.005
21	Sulphate (as SO ₄)	mg/l	APHA (23rd Edition) 4500 - SO ₄ - E : 2017	200	400	126
22	Alkalinity (as CaCO ₃)	mg/l	APHA (23rd Edition) 2320B 2017 (O)	200	600	144
23	Total Hardness (as CaCO ₃)	mg/l	APHA (23rd Edition) 2340 C 2017 (O)	200	600	158
24	Cadmium (as Cd)	mg/l	APHA (23rd Edition) 3120B 2017 (O)	0.003	No Relaxation	<0.001
25	Cyanide (as CN)	mg/l	APHA (23rd Edition) 4500 -CN- F: 2017	0.05	No Relaxation	<0.02
26	Lead (as Pb)	mg/l	APHA (23rd Edition) 3120B 2017 (O)	0.01	No Relaxation	<0.005
27	Mercury (as Hg)	mg/l	IS 3025 (Part 48): 1994	0.001	No Relaxation	<0.001
28	Molybdenum (as Mo)	mg/l	APHA (23rd Edition) 3120B 2017 (O)	0.07	No Relaxation	<0.05
29	Nickel (as Ni)	mg/l	APHA (23rd Edition) 3120B 2017 (O)	0.02	No Relaxation	<0.02
30	Arsenic (as As)	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES) (O)	0.01	0.05	<0.005
31	Taste	None	IS 3025 (Part 8)-1983 Rfim:2012 (O)			
32	Zinc (as Zn)	mg/l	APHA (23rd Edition) 3120B 2017 (O)	5	15	<0.02
33	Hexavalent Chromium (as Cr+6)	mg/l	APHA (23rd Edition) 3500 Cr B : 2017			<0.01

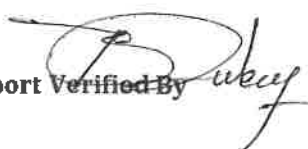
Micro Biology

Sl No.	Test Parameters	Unit	Test Method	Desirable Limit	Permissible	Result
34	E.coli	/100ml	APHA 23rd Edition 9221 F (O)		NA	Not Detected
35	Total coliform	MPN/100ml	APHA 23rd Edition 9221 B (O)		NA	<2

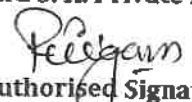
DL : Detection Limit BDL : Below Detection Limit

Opinion :

Report Verified By



For Mitra S. K. Private Limited


 Authorised Signatory

* This results relate only to the item(s) tested.

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TEST REPORT**Name & Address of Customer :****Prayagraj Power Generation Company Ltd.**
 Vill.: Khan Semra,
 Tehsil : Bara,
 Dist.: Prayagraj
 (Uttar Pradesh) [India]
 (Pin Code - 212107)
Report No. :

MSKGL/ED/2023-24/001483

Date :

02/10/2023

Job No. :

ED/WAT/KAT-2023/00018

Sample No. :

MSKGL/ED/2023-24/09/01132

Drawn/Submitted on :

21/09/2023

Reference No. & Date :

9200000102, Date - 24/05/2021

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

1. Description of sample (As declared by customer)	Ground Water
2. Sample Mark (if any, given by the customer)	HP-3 JORVAT VILLAGE
3. Date of sampling	21/09/2023

Report No. : MSKGL/ED/2023-24/001483**Sample No. :** MSKGL/ED/2023-24/09/01132**ANALYSIS RESULT**

Chemical						
Sl No.	Test Parameters	Unit	Test Method	Desirable Limit	Permissible	Result
1	Colour	Hazen	APHA (23rd Edition) 2120B : 2017	5	15	<5.0
2	Odour	None	APHA (23rd Edition) 2150B : 2017	Agreeable	Agreeable	Agreeable
3	pH value	None	APHA (23rd Edition) 4500 - H-B : 2017	6.5-8.5	No Relaxation	7.22 at 25 deg C
4	Turbidity	N.T.U.	APHA (23rd Edition) 2130B : 2017	1	5	<1.0
5	Total Dissolved Solids (as TDS)	mg/l	APHA 23ND EDITION, 2540 C.(O)	500	2000	291
6	Aluminium (as Al)	mg/l	APHA (23rd Edition) 3120 B : 2017	0.03	0.2	<0.01
7	Anionic Detergents (as MBAS)	mg/l	APHA (23rd Edition) 5540 C, 2017_(O)	0.2	1.0	<0.02
8	Barium (as Ba)	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)	0.7	No Relaxation	<0.05
9	Boron (as B)	mg/l	APHA (23rd Edition) 2540C_(O)	0.5	1.0	<0.5
10	Calcium (as Ca)	mg/l	APHA (23rd Edition) 3500 Ca B, 2017_(O)	75	200	48
11	Chloride (as Cl)	mg/l	APHA (23rd Edition) 4500-Cl B 2017_(O)	250	1000	122
12	Copper (as Cu)	mg/l	APHA (23rd Edition) 3120 B : 2017	0.05	1.5	<0.02
13	Fluoride (as F)	mg/l	APHA (23rd Edition) 4500 - F C/D, 2017_(O)	1.0	1.5	0.73
14	Free Residual Chlorine	mg/l	IS 3025 (Part 26)-1986 Rffm:2014_(O)	0.2	1.0	<0.1
15	Iron (as Fe)	mg/l	APHA (23rd Edition) 3500 Fe B : 2017	0.3	No Relaxation	0.17
16	Magnesium (as Mg)	mg/l	APHA (23rd Edition) 3500 Mg B, 2017_(O)	30	100	25

* This results relate only to the item(s) tested.

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Report No. : MSKGL/ED/2023-24/001483

Sample No. : MSKGL/ED/2023-24/09/01132

ANALYSIS RESULT

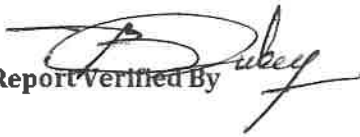
Chemical						
Sl No.	Test Parameters	Unit	Test Method	Desirable Limit	Permissible	Result
17	Manganese (as Mn)	mg/l	APHA (23rd Edition) 3120 B : 2017	0.1	0.3	<0.02
18	Nitrate (as NO ₃)	mg/l	APHA (23rd Edition) 4500 - NO ₃ - E : 2017	45	No Relaxation	34
19	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	APHA (23rd Edition) 5530C : 2017	0.001	0.002	<0.001
20	Selenium (as Se)	mg/l	APHA (23rd Edition) 3120B 2017_(O)	0.01	No Relaxation	<0.005
21	Sulphate (as SO ₄)	mg/l	APHA (23rd Edition) 4500 - SO ₄ - E : 2017	200	400	103
22	Alkalinity (as CaCO ₃)	mg/l	APHA (23rd Edition) 2320B 2017_(O)	200	600	115
23	Total Hardness (as CaCO ₃)	mg/l	APHA (23rd Edition) 2340 C 2017_(O)	200	600	166
24	Cadmium (as Cd)	mg/l	APHA (23rd Edition) 3120B 2017_(O)	0.003	No Relaxation	<0.001
25	Cyanide (as CN)	mg/l	APHA (23rd Edition) 4500 -CN- F: 2017	0.05	No Relaxation	<0.02
26	Lead (as Pb)	mg/l	APHA (23rd Edition) 3120B 2017_(O)	0.01	No Relaxation	<0.005
27	Mercury (as Hg)	mg/l	IS 3025 (Part 48): 1994	0.001	No Relaxation	<0.001
28	Molybdenum (as Mo)	mg/l	APHA (23rd Edition) 3120B 2017_(O)	0.07	No Relaxation	<0.05
29	Nickel (as Ni)	mg/l	APHA (23rd Edition) 3120B 2017_(O)	0.02	No Relaxation	<0.02
30	Arsenic (as As)	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)	0.01	0.05	<0.005
31	Taste	None	IS 3025 (Part 8)-1983 Rffm:2012_(O)			
32	Zinc (as Zn)	mg/l	APHA (23rd Edition) 3120B 2017_(O)	5	15	<0.03
33	Hexavalent Chromium (as Cr+6)	mg/l	APHA (23rd Edition) 3500 Cr B : 2017			<0.01

Micro Biology

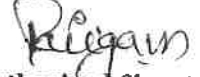
Sl No.	Test Parameters	Unit	Test Method	Desirable Limit	Permissible	Result
34	E.coli	/100ml	APHA 23rd Edition 9221 F_(O)		NA	Not Detected
35	Total coliform	MPN/100ml	APHA 23rd Edition 9221 B_(O)		NA	<2

DL : Detection Limit BDL : Below Detection Limit

Opinion :

 Report Verified By 

For Mitra S. K. Private Limited



 Authorised Signatory

* This results relate only to the item(s) tested.

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TEST REPORT**Name & Address of Customer :****Prayagraj Power Generation Company Ltd.**
 Vill.: Khan Semra,
 Tehsil : Bara,
 Dist.: Prayagraj
 (Uttar Pradesh) [India]
 {Pin Code - 212107}
Report No. :

MSKGL/ED/2023-24/001458

Date :

02/10/2023

Job No. :

ED/WAT/KAT-2023/00018

Sample No. :

MSKGL/ED/2023-24/09/01131

Drawn/Submitted on :

21/09/2023

Reference No. & Date :

9200000102, Date - 24/05/2021

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

1. Description of sample (As declared by customer)	Ground Water
2. Sample Mark (if any, given by the customer)	HP-2 KAPARI PANCHAYAT BHAWAN
3. Date of sampling	21/09/2023

Report No. : MSKGL/ED/2023-24/001458**Sample No. :** MSKGL/ED/2023-24/09/01131**ANALYSIS RESULT**

Chemical						
Sl No.	Test Parameters	Unit	Test Method	Desirable Limit	Permissible	Result
1	Colour	Hazen	APHA (23rd Edition) 2120B : 2017	5	15	<1.0
2	Odour	None	APHA (23rd Edition) 2150B : 2017	Agreeable	Agreeable	Agreeable
3	pH value	None	APHA (23rd Edition) 4500 - H-B : 2017	6.5-8.5	No Relaxation	7.34 at 25 deg C
4	Turbidity	N.T.U.	APHA (23rd Edition) 2130B : 2017	1	5	2.7
5	Total Dissolved Solids (as TDS)	mg/l	APHA 23ND EDITION, 2540 C_(O)	500	2000	261
6	Aluminium (as Al)	mg/l	APHA (23rd Edition) 3120 B : 2017	0.03	0.2	<0.01
7	Anionic Detergents (as MBAS)	mg/l	APHA (23rd Edition) 5540 C, 2017_(O)	0.2	1.0	<0.02
8	Barium (as Ba)	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)	0.7	No Relaxation	<0.05
9	Boron (as B)	mg/l	APHA (23rd Edition) 2540C_(O)	0.5	1.0	<0.5
10	Calcium (as Ca)	mg/l	APHA (23rd Edition) 3500 Ca B, 2017_(O)	75	200	47
11	Chloride (as Cl)	mg/l	APHA (23rd Edition) 4500-Cl B 2017_(O)	250	1000	89
12	Copper (as Cu)	mg/l	APHA (23rd Edition) 3120 B : 2017	0.05	1.5	<0.02
13	Fluoride (as F)	mg/l	APHA (23rd Edition) 4500 - F C/D, 2017_(O)	1.0	1.5	0.77
14	Free Residual Chlorine	mg/l	IS 3025 (Part 26)-1986 Rffm:2014_(O)	0.2	1.0	<0.1
15	Iron (as Fe)	mg/l	APHA (23rd Edition) 3500 Fe B : 2017	0.3	No Relaxation	0.27
16	Magnesium (as Mg)	mg/l	APHA (23rd Edition) 3500 Mg B, 2017_(O)	30	100	21

* This results relate only to the item(s) tested.

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Report No. : MSKGL/ED/2023-24/001458

Sample No. : MSKGL/ED/2023-24/09/01131

ANALYSIS RESULT

Chemical						
Sl No.	Test Parameters	Unit	Test Method	Desirable Limit	Permissible	Result
17	Manganese (as Mn)	mg/l	APHA (23rd Edition) 3120 B : 2017	0.1	0.3	<0.02
18	Nitrate (as NO ₃)	mg/l	APHA (23rd Edition) 4500 - NO ₃ - E : 2017	45	No Relaxation	30
19	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	APHA (23rd Edition) 5530C : 2017	0.001	0.002	<0.001
20	Selenium (as Se)	mg/l	APHA (23rd Edition) 3120B 2017_(O)	0.01	No Relaxation	<0.005
21	Sulphate (as SO ₄)	mg/l	APHA (23rd Edition) 4500 - SO ₄ - E : 2017	200	400	74
22	Alkalinity (as CaCO ₃)	mg/l	APHA (23rd Edition) 2320B 2017_(O)	200	600	179
23	Total Hardness (as CaCO ₃)	mg/l	APHA (23rd Edition) 2340 C 2017_(O)	200	600	124
24	Cadmium (as Cd)	mg/l	APHA (23rd Edition) 3120B 2017_(O)	0.003	No Relaxation	<0.001
25	Cyanide (as CN)	mg/l	APHA (23rd Edition) 4500 -CN- F: 2017	0.05	No Relaxation	<0.01
26	Lead (as Pb)	mg/l	APHA (23rd Edition) 3120B 2017_(O)	0.01	No Relaxation	<0.005
27	Mercury (as Hg)	mg/l	IS 3025 (Part 48): 1994	0.001	No Relaxation	<0.001
28	Molybdenum (as Mo)	mg/l	APHA (23rd Edition) 3120B 2017_(O)	0.07	No Relaxation	<0.05
29	Nickel (as Ni)	mg/l	APHA (23rd Edition) 3120B 2017_(O)	0.02	No Relaxation	<0.02
30	Arsenic (as As)	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)_(O)	0.01	0.05	<0.005
31	Taste	None	IS 3025 (Part 8)-1983 Rfrn:2012_(O)			
32	Zinc (as Zn)	mg/l	APHA (23rd Edition) 3120B 2017_(O)	5	15	<0.02
33	Hexavalent Chromium (as Cr+6)	mg/l	APHA (23rd Edition) 3500 Cr B : 2017			<0.01

Micro Biology

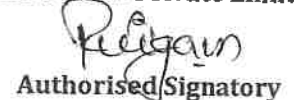
Sl No.	Test Parameters	Unit	Test Method	Desirable Limit	Permissible	Result
34	E.coli	/100ml	APHA 23rd Edition 9221 F_(O)		NA	Not Detected
35	Total coliform	MPN/100ml	APHA 23rd Edition 9221 B_(O)		NA	<2

DL : Detection Limit BDL : Below Detection Limit

Opinion :


 Report Verified By

For Mitra S. K. Private Limited


 Authorised Signatory

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Green belt development

TEST REPORT**Name & Address of Customer :****Prayagraj Power Generation Company Ltd.**Vill.: Khan Semra, Tehsil : Bara,
Dist.: Prayagraj
(Uttar Pradesh) [India]
(Pin Code - 212107)**Report No. :**

MSKGL/ED/2023-24/001548

Date :

02/10/2023

Sample No. :

MSKGL/ED/2023-24/09/01254

Job No. :

ED/AIR/KAT-2023/00016

Reference No. & Date :

9200000102, Date - 24/05/2021

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

1. Description of sample (As declared by customer)	NOISE
2. Sample Mark (if any, given by the customer)	TURBINE AREA
3. Date of sampling	25/09/2023

Report No. : MSKGL/ED/2023-24/001548**Sample No. :** MSKGL/ED/2023-24/09/01254**ANALYSIS RESULT**

Chemical				
Sl No.	Test Parameters	Unit	Test Method	Result
1	Leq dB(A) day	dB(A)	IS 9989: 1981	72.3
2	Leq dB(A) night	dB(A)	IS 9989: 1981	71.2

DL : Detection Limit**BDL : Below Detection Limit****Opinion :**

Report Verified By

For Mitra S. K. Private Limited


 Authorised Signatory

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TEST REPORT**Name & Address of Customer :****Prayagraj Power Generation Company Ltd.**
 Vill.: Khan Semra, Tehsil : Bara,
 Dist.: Prayagraj
 (Uttar Pradesh) [India]
 {Pin Code - 212107}
Report No. :

MSKGL/ED/2023-24/001065

Date :

19/08/2023

Sample No. :

MSKGL/ED/2023-24/08/00962

Job No. :

ED/AIR/KAT-2023/00013

Reference No. & Date :

9200000102, Date - 24/05/2021

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

1. Description of sample (As declared by customer)	NOISE 07-08-23
2. Sample Mark (if any, given by the customer)	TURBINE AREA
3. Date of sampling	07/08/2023

Report No. : MSKGL/ED/2023-24/001065**Sample No. :**

MSKGL/ED/2023-24/08/00962

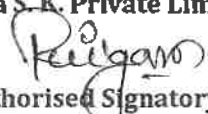
ANALYSIS RESULT

Chemical				
Sl No.	Test Parameters	Unit	Test Method	Result
1	Leq dB(A) day	dB(A)	IS 9989: 1981	67.2
2	Leq dB(A) night	dB(A)	IS 9989: 1981	53.8

DL : Detection Limit**BDL : Below Detection Limit****Opinion :**

Report Verified By

For Mitra S. K. Private Limited



 Authorised Signatory

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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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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/2023-24/NOISE/0033

Date : 22/07/2023

Sample No. : MSKGL/ED/2023-24/07/00861

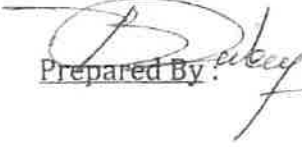
Date Of Sample : 10/07/2023

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	10.07.2023	INSIDE PLANT	70.8	56.2

Prepared By: 



For Mitra S. K. Private Limited


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Page 1 of 1

Mitra S. K. Private Limited

Above Punjab National Bank
Maihar Road, NH-7, Kuthla
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TEST REPORT

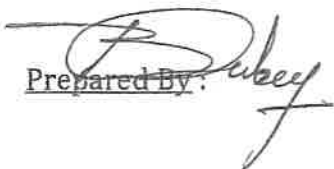
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2023-24/NOISE/0025
Date : 05/07/2023
Sample No. : MSKGL/ED/2023-24/06/01535
Date Of Sample : 26/06/2023
Sample Description : NOISE MONITORING

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

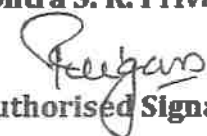
ANALYSIS RESULT

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	26.06.2023	INSIDE PLANT	69.3	66.1

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For Mitra S. K. Private Limited




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Page 1 of 1

Mitra S. K. Private Limited

Above Punjab National Bank
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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/2023-24/NOISE/0017
Date : 28/05/2023
Sample No. : MSKGI/ED/2023-24/05/02003
Date Of Sample : 18/05/2023
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	18.05.2023	INSIDE PLANT	68.3	59.4

Prepared By:



For Mitra S. K. Private Limited

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Above Punjab National Bank
Maihar Road, NH-7, Kuthla,
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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/2023-24/NOISE/0009
Date : 01/05/2023
Sample No. : MSKGL/ED/2023-24/04/01404
Date Of Sample : 24/04/2023
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	24.04.2023	INSIDE PLANT	72.8	68.1

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For Mitra S. K. Private Limited


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Mitra S. K. Private Limited



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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/2023-24/AA/0051-0054
Date : 05/05/2023
Sample No. : MSKGL/ED/2023-24/04/01346-01349
Date Of Sample : 03.04.2023
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	82.6	34.4	6.3	31.2
2.	Fire Station	53.4	32.1	6.7	20.8
3.	Horticulture	61.9	37.2	<6.0	32.3
4.	ITI College	59.4	34.5	<6.0	36.8
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, Kuthia,
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CIN: U51909WB1956PTC023037
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sknigam@mitrask.co.in

TEST REPORT

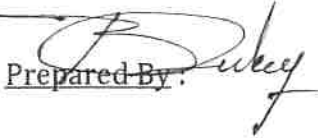
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2023-24/AA/0055-0057
Date : 05/05/2023
Sample No. : MSKGL/ED/2023-24/04/01350-01352
Date Of Sample : 04/04/2023
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	59.9	26.3	<6.0	19.6
2.	Bemara Village	56.2	30.2	6.8	23.6
3.	Kapari Village	65.3	34.8	6.9	37.9
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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Above Punjab National Bank
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sknigam@mitrask.co.in

TEST REPORT

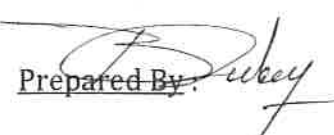
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2023-24/AA/0094-0097
Date : 05/05/2023
Sample No. : MSKGL/ED/2023-24/04/01389-01392
Date Of Sample : 27.04.2023
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

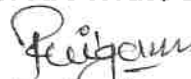
Ref. No. & Date : 9200000102. Dt-24/05/2021.

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	77.1	43.8	11.2	45.4
2.	Fire Station	82.9	46.6	8.2	39.6
3.	Horticulture	78.8	39.5	7.9	32.1
4.	ITI College	94.1	54.0	6.7	19.3
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
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sknigam@mitrask.co.in

TEST REPORT

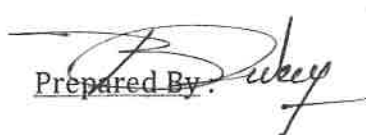
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2023-24/AA/0098-0100
Date : 05/05/2023
Sample No. : MSKGL/ED/2023-24/04/01393-01395
Date Of Sample : 28/04/2023
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 (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
1.	Lohgara Village	65.7	28.9	6.6	21.4
2.	Bemara Village	53.2	25.3	<6.0	17.1
3.	Kapari Village	51.8	23.3	<6.0	18.6
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.)
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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/2023-24/AA/0107-0109
Date : 08/06/2023
Sample No. : MSKGL/ED/2023-24/05/01960-01962
Date Of Sample : 04.05.2023
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	87.2	47.6	10.2	28.1
2.	Fire Station	90.8	53.1	12.3	36.4
3.	ITI College	53.9	22.8	6.7	18.4
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

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/2023-24/AA/0110-0112
Date : 08/06/2023
Sample No. : MSKGL/ED/2023-24/05/01963-01965
Date Of Sample : 05/05/2023
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	54.9	23.3	6.2	19.2
2.	Bemara Village	63.4	27.2	7.3	23.6
3.	Kapari Village	58.1	30.6	6.6	19.4
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

Above Punjab National Bank
Mairhar 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/2023-24/AA/0137-0139
Date : 08/06/2023
Sample No. : MSKGL/ED/2023-24/05/01990-01992
Date Of Sample : 22.05.2023
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	88.3	46.7	8.3	31.2
2.	Fire Station	77.1	39.6	7.7	28.4
3.	ITI College	60.4	24.1	7.4	16.2
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By:

For Mitra S. K. Private Limited

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

TEST REPORT

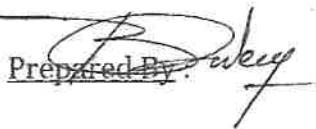
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2023-24/AA/0140-0142
Date : 08/06/2023
Sample No. : MSKGL/ED/2023-24/05/01993-01995
Date Of Sample : 23/05/2023
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	59.1	32.3	6.7	20.2
2.	Bemara Village	55.8	26.7	7.2	17.6
3.	Kapari Village	63.1	28.5	6.3	22.9
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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sknigam@mitrask.co.in

TEST REPORT

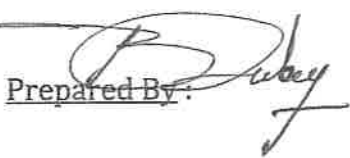
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2023-24/AA/0162-0164
Date : 12/07/2023
Sample No. : MSKGL/ED/2023-24/06/01562-01564
Date Of Sample : 05.06.2023
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	86.3	47.1	9.4	27.7
2.	Fire Station	90.6	53.1	12.3	36.4
3.	ITI College	53.7	23.0	6.4	18.6
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited

Authorised Signatory 

Page 1 of 2

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/2023-24/AA/0165-0167

Date : 12/07/2023

Sample No. : MSKGL/ED/2023-24/06/01565-01567

Date Of Sample : 06/06/2023

Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

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

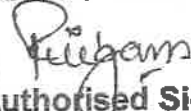
ANALYSIS RESULT

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	57.7	21.8	6.4	18.8
2.	Bemara Village	63.5	27.3	7.1	22.8
3.	Kapari Village	56.4	33.6	<6.0	19.4
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

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



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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/2023-24/AA/0149-0152
Date : 12/07/2023
Sample No. : MSKGL/ED/2023-24/06/01548-01551
Date Of Sample : 26.06.2023
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

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

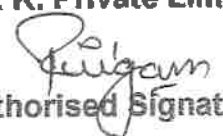
ANALYSIS RESULT

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	91.2	56.8	10.2	30.6
2.	Fire Station	81.2	47.6	9.8	33.6
3.	Horticulture	76.6	39.8	9.2	23.8
4.	ITI College	71.6	37.1	8.8	37.1
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



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/2023-24/AA/0153-0155
Date : 12/07/2023
Sample No. : MSKGL/ED/2023-24/06/01552-01554
Date Of Sample : 27.06.2023
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

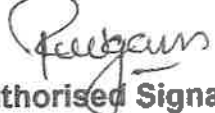
Ref. No. & Date : 9200000102. Dt-24/05/2021.

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	90.2	54.8	9.2	28.7
2.	Bemara Village	84.2	50.1	8.1	28.2
3.	Kapari Village	77.1	39.8	7.9	26.2
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, Kuthia
Katni - 483501 (M.P.)
CIN : U51909WB1956PTC023037



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sknigam@mitrask.co.in

TEST REPORT

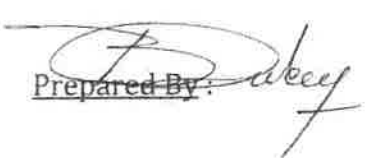
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2023-24/AA/0204-0206
Date : 02/08/2023
Sample No. : MSKGL/ED/2023-24/07/00868-00870
Date Of Sample : 03.07.2023
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

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

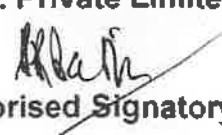
ANALYSIS RESULT

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	77.1	42.3	6.2	29.3
2.	Fire Station	67.8	37.2	7.6	26.4
3.	ITI College	75.9	40.6	8.1	31.5
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



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

TEST REPORT

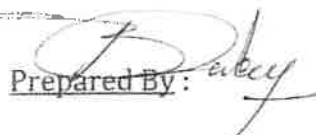
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2023-24/AA/0207-0209
Date : 02/08/2023
Sample No. : MSKGL/ED/2023-24/07/00871-00873
Date Of Sample : 04/07/2023
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

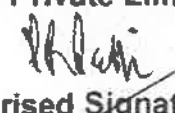
Ref. No. & Date : 9200000102, Dt -24/05/2021.

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	55.6	29.6	6.4	21.7
2.	Bemara Village	62.1	36.3	7.8	22.3
3.	Kapari Village	57.6	27.4	6.6	18.7
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, Kuthia
Katni - 483501 (M.P.)
CIN : U51909WB1956PTC023037



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sknigam@mitrask.co.in

TEST REPORT

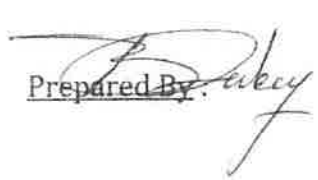
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2023-24/AA/0237-0239
Date : 02/08/2023
Sample No. : MSKGL/ED/2023-24/07/00901-00903
Date Of Sample : 25/07/2023
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	43.6	19.7	6.3	22.3
2.	Bemara Village	45.1	20.5	6.4	26.2
3.	Kapari Village	49.4	22.4	8.9	25.2
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

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/2023-24/AA/0234-0236

Date : 02/08/2023

Sample No. : MSKGL/ED/2023-24/07/00898-00900

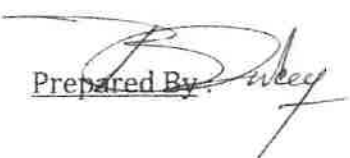
Date Of Sample : 24.07.2023

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	71.6	38.5	7.7	30.7
2.	Fire Station	52.3	30.2	6.7	19.6
3.	ITI College	45.6	20.8	<6.0	17.4
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited




Authorised Signatory

Data of Stack and ambient air display at main gate of the Plant



PPGCL/ENV/FY24/081

Date: 21.07.2023

To,
The Member Secretary,
U.P. Pollution Control Board,
Building No. TC-12V
Vibhuti Khand, Gomti Nagar
Lucknow-226010

Subject: Environment Statement in Form V for the financial year 2022-2023.

Dear Sir,

Please find enclosed the Environment Statement report for the period April-22 to March-23 (FY 22-23) for M/s Prayagraj Power Generation Company Limited, Bara.

This is for your kind information and record please.

Yours Sincerely,

For Prayagraj Power Generation Company Limited,


S H Pandey

Chief- Operation & Maintenance (Services)

Encl: Environment Statement (Form V) for FY 22-23

Cc: The Regional Officer

U.P. Pollution Control Board, 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: U40101UP2007PLC032835

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

FORM – V**Environment Statement for the Financial Year ending 31st March 2023****PART-A**

- (i) Name and Address of the Owner/Occupier of the industry or process : Mr. S H Pandey
Prayagraj Power Generation Company Limited
Vill. - Lohgara, Tehsil- Bara
Distt – Prayagraj, Uttar Pradesh
Pin- 212107
- (ii) Industry Category : Large
- (iii) Production Capacity : 3x660 MW (Electric Thermal Power Plant)
- (iv) Year of establishment : Unit-1: 2016
Unit-2: 2016
Unit-3: 2017
- (v) Date of last Environment Statement submitted : 14.09.2022

PART-B**Water and Raw Material Consumption**

- (1) Water Consumption (m³/day)
Current Year (2022-2023)
Process : 71143.7
Domestic : 398.6

Name of Product	Water consumption per unit of product output (m ³ /MWh)	
	During the previous financial year 2021-2022	During the current financial year 2022-2023
Electricity	2.03	2.08

- (2) Raw Material consumption

Name of raw materials	Name of Products	Consumption of raw material per unit of output (MT/MU)	
		During the previous financial year 2021-2022	During the current financial year 2022-2023
Coal	Electricity	619.07	610.4
HSD	Electricity	0.25	0.20

- (3) Electricity Generation (MUs)

Name of Product	During the previous financial year 2021-2022	During the current financial year 2022-2023
Electricity	11654.94	12509.99

PART-C**Pollution discharge to Environment/Unit of output**

(Parameters as specified in consent issued)

Pollutants	Quantity of pollutants discharged (T/day)	Concentration of pollutants in discharged (mass/volume) Mg/Nm ³	Percentage of variation from prescribed standards with reasons
Water	-	-	Treated process wastewater is recycled within system. Treatment domestic effluent is used in horticulture.
Air (1)PM (2)SO ₂ (3)NO _x	3.8 104.0 32.9	30.3 823.5 261.7	-

PART-D**Hazardous Waste**

(As specified under Hazardous and Other waste (Management and Transboundary movement) Rules 2016)

Hazardous Waste	Total Quantity (kg)	
	During the previous financial year 2021-2022	During the current financial year 2022-2023
From Process	Cat-5.1: 40.4 kL	Cat-5.1: 27.6 kL
From Pollution Control facilities	Nil	Nil

PART-E**Solid Waste**

Solid Waste	Total Quantity (MT/Annum)	
	During the previous financial year 2021-2022	During the current financial year 2022-2023
A. From Process	Nil	Nil
B. From Pollution Control facilities (Ash)	2419356	2613596

C. 1. Quantity recycled or reutilized within the unit	The Fly ash is utilized in – Cement industry, for ash-based products like fly ash brick, Low lying and abandoned mine backfilling and Ash dyke raising	The Fly ash is utilized in – Cement industry, for ash-based products like fly ash brick, filling of low lying area and road construction.
2. Sold		
3. Recycled/Utilized	Total quantity utilized in FY 22- 2107528.77 MT	Total quantity utilized in FY 23- 2295579.08 MT

PART-F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

- The Hazardous waste Used Oil (Cat- 5.1 - 27.6 kL) generated at site was sent to authorized recycler for recycling.
- Solid Waste: Fly Ash was utilized in Cement, Brick, filling of low-lying area and road construction.

PART-G

Impact of the pollution abatement measures taken on conversion of natural resources and on the cost of production.

- (1) Installation of ETP for the treatment of industrial effluent.
- (2) Installation of STP for the treatment of Domestic effluent.
- (3) Installation of Ash water recovery system has been implemented.

The treated effluent is recycled within the system resulting in conservation of natural resource (fresh water).

PART-H

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution.

- For the control of Air pollution ESP, one twin Flue stack of 275-meter height, dust extraction and dust suppression system has been installed.
- Online monitoring system has already been installed in stack to monitor SO₂, NO_x, and particulate matter.
- CAAQMS (Continuous Ambient Air Quality Monitoring System) for online ambient air monitoring has been installed.
- For the control of Water pollution ETP & STP has been installed for the treatment of Industrial and domestic effluent. Also, ash water recovery system has been established.
- Coal pile run off pit constructed.
- Green belt has been developed in and around plant premises. The species which have been planted are- Neem, Sisam, Arjun, Pipal, Banyan, Karanj, Kaner, Gulmohar, Siris, Jamun, and Bamboo. During FY 23, we planted 20520 saplings. Till March 23 we have planted approx 3.34 lakh saplings.
- We also have developed "Miyawaki Forest" in 5650 m² area with plantation of local species.

- Environment monitoring carried out by NABL accredited laboratory.
- Dust suppression system has been installed in coal yard area. Fogging system installed at wagon tippler.
- We have installed solar streetlights, solar based garden lights and roof top solar of 204 kW at our school building and 61 kW at hospital.
- Solar water heaters have been installed on the roof of guest houses.
- LED lamps have been installed.
- Fly ash brick making unit has been installed under CSR activity.
- One check dam has been constructed in Jorvat village.
- Turbo ventilators have been installed in the store and mechanical workshop.
- We have constructed roof top rainwater harvesting systems and rainwater harvesting ponds in the plant premises.

PART-I

Any other particulars for improving the quality of the environment.

- (i) Green Belt developed in and around the factory premises. Additional plantation is also being done.
- (ii) Good housekeeping is being maintained in and around the power plant.
- (iii) Treated effluent being recycled within the system.
- (iv) Installed solar panels on the roof of school and hospital building.
- (v) Biodegradable waste generated at site is being managed by third party to convert it into compost.
- (vi) E waste and battery has been disposed through authorised recycler.

Environment Expenditure during FY 23-24 (Till Sept'23)

Sl.No	Particular	Amount in lakh
1	Environment monitoring	10.38
2	Green belt development	34.76
3	Online monitoring system	7.52
4	Solid waste management	17.21
5	Water sprinkling tanker	1.20
6	Rain Harvesting	4.45
7	ESG profiling	0.60
	Total	76.12

Roof Top Solar Installed at Hospital Building



भारत सरकार
परमाणु ऊर्जा विभाग
विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड



Government of India
Department of Atomic Energy
Board of Radiation & Isotope Technology

Certificate Tracking ID / CTID : 2306988
Date of Issue / DOI : 05-Aug-2023
Certificate Serial No. / CSN : ULR-TC1170323000000363F



Radioanalytical Laboratory

RADIOACTIVITY TEST CERTIFICATE

Ref : BRIT/RAL/DOM/309-320/MISC/225-236/23-24

To :
M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA,
TEHSIL, BARA, ALLAHABAD, UTTAR PRADESH,
INDIA, 212107

This is regarding the sample of "COAL, BOTTOM ASH & FLY ASH" sent for radioactivity analysis vide your letter dated 19-07-2023 which as per above letter is drawn from consignment with the following markings, as shown in italics:

SAMPLE DESCRIPTION : 1) COAL
2) BOTTOM ASH
3) FLY ASH
QUANTITY : 1) 01
2) 01
3) 01
SAMPLING DATE : 19.07.2023
SAMPLE LOCATION : ALLAHABAD, UTTAR PRADESH

DATE OF RECEIPT OF SAMPLE: 19.07.2023

DATE OF COMPLETION OF TEST: 25.07.2023

The samples were analysed for U-238, Ra-226, Th-232 and K-40 radioactivity content by HPGe gamma spectrometry and the values obtained are as follows:

Sr. No	NAME OF THE PRODUCT	U-238 (Bq/Kg)	Th-232 (Bq/Kg)	Ra-226 (Bq/Kg)	K-40 (Bq/Kg)
1	COAL	9.8 ± 0.5	19 ± 2.0	7 ± 0.1	mdl 6.1
2	BOTTOM ASH	30.7 ± 1.1	50.6 ± 5.1	26.4 ± 2.5	119.5 ± 6.5
3	FLY ASH	26.6 ± 0.7	50.8 ± 5.0	30.8 ± 1.9	107.9 ± 4.5

Opinion: 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 1 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:
SHEEBA S.W.
Assistant

Authorized Signatory:
AJAY NANA THAMKE
OIC, RAL

***** End of Report *****

1/1

The authenticity of this certificate is verifiable. Please scan the QR code using a QR scanning application on any mobile devices. Upon redirection you must enter the necessary information in landing page <https://portal.britatom.gov.in>. We will then revert you back with a digital copy of the certificate in your verified e-mail ID. In accordance to IT Act 2000 (21 of 2000), this document is generated electronically through a validated s/w and need no physical/ digital signature(s).



ब्रिआरसी/ बीएआरसी परिसर, सेक्टर २०, वाशी, नवी मुंबई - ४०० ७०३ (महाराष्ट्र)
BRIT/ BARC Vashi Complex, Sector 20, Navi Mumbai - 400 703 (Maharashtra)

वेबसाइट: Website: www.britatom.gov.in; फ़ोन: 022 2788 7002/ 7006



Mitra S. K. Private Limited

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



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

TEST REPORT

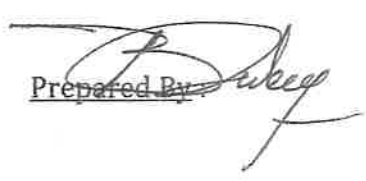
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2023-24/FAW/0001
Date : 12/07/2023
Sample No. MSKGL/ED/2023-24/06/01525
Date Of Sample : 25/06/2023
Sample Description : FLY ASH SAMPLE
Sample Mark : Flyash (White 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	8575	EPA 6010D_(O)
2.	Arsenic as As (TCLP)	None	<0.02 mg/l	EPA 1311: 1992
3.	Barium as Ba (TCLP)	None	1.9 mg/l	EPA 1311: 1992
4.	Cadmium as Cd (TCLP)	None	<0.1 mg/l	EPA 1311: 1992
5.	Calcium Oxide (as CaO)	mg/kg	2854	TPM/MSK/ P&E /2/24_(O)
6.	Chloride (as Cl)	mg/kg	65	TPM/MSK/ P&E /2/25_(O)
7.	Cobalt as Co (TCLP)	None	<0.1 mg/l	EPA 1311_(O)
8.	Copper as Cu (TCLP)	None	<0.1 mg/l	EPA 1311: 1992
9.	Fluoride (TCLP)	None	0.75 mg/l	EPA 1311_(O)
10.	Iron Oxide (as Fe ₂ O ₃)	mg/kg	15021	TPM/MSK/ P&E /2/31_(O)
11.	Iron as Fe (TCLP)	None	2.6 mg/l	EPA 1311_(O)
12.	Lead as Pb (TCLP)	None	<0.1 mg/l	EPA 1311: 1992
13.	Loss on ignition	%	0.12	TPM/MSK/P&E/2/4_(O)
14.	Magnesium Oxide (as MgO)	mg/kg	890	TPM/MSK/ P&E /2/26_(O)
15.	Manganese as Mn (TCLP)	None	0.19 mg/l	EPA 1311_(O)
16.	Mercury as Hg (TCLP)	None	<0.5 mg/l	EPA 1311: 1992
17.	Moisture content	%	4.6	TPM/MSK/ P&E /2/28_(O)

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.

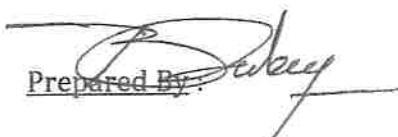
Report No. : MSK/KTN/2023-24/FAW/0001
Date : 12/07/2023
Sample No. MSKGL/ED/2023-24/06/01525
Date Of Sample : 25/06/2023
Sample Description : FLY ASH SAMPLE
Sample Mark : Flyash (White Sample)

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

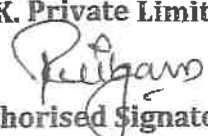
ANALYSIS RESULT

SL. No.	Parameter	UOM	Result	Method
18.	Nickel as Ni (TCLP)	None	<0.1 mg/l	EPA 1311: 1992
19.	P205	mg/kg	1780	TPM/MSK/ P&E /2/32_(O)
20.	Particle Size (10 - 50)	None	38%	TPM/MSK/ P&E /5/01_(O)
21.	Particle Size (100 - 150 micron)	None	12%	TPM/MSK/ P&E /5/01_(O)
22.	Particle Size (50 - 75)	None	1.4%	TPM/MSK/ P&E /5/01_(O)
23.	Particle Size (75 - 100)	None	2.6%	TPM/MSK/ P&E /5/01_(O)
24.	Particle Size (>150)	None	19%	TPM/MSK/ P&E /5/01_(O)
25.	Particle Size (Below 10 micron)	None	27%	TPM/MSK/ P&E /5/01_(O)
26.	Permeability	%	1.6 Cm/hr	IS 2720 (Part 17)-1986; Rffm:2011_(O)
27.	Pottasium Oxide (as K2O)	mg/kg	580	TPM/MSK/ P&E /2/27_(O)
28.	Silicon Dioxide (as SiO2)	%	49	TPM/MSK/ P&E /2/60_(O)
29.	Sodium Oxide (as Na2O)	mg/kg	306	TPM/MSK/ P&E /2/27_(O)
30.	Specific gravity	None	2.12	IS 2720 (Part-3)-1980; Rffm:2011_(O)
31.	Sulphate as SO3	mg/kg	258	TPM/MSK/P&E/2/37_(O)
32.	Titanium Oxide (as TiO2)	mg/kg	<4.0	EPA 6010D_(O)
33.	Total Chromium as Cr (TCLP)	None	<0.1 mg/l	EPA 1311: 1992
34.	Zinc as Zn (TCLP)	None	0.26 mg/l	EPA 1311: 1992

For Mitra S. K. Private Limited

Prepared By: 




Authorised Signatory

Mitra S. K. Private Limited

Above Punjab National Bank
Maihar Road, NH-7, Kuthla
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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/2023-24/FAW/0002
Date : 12/07/2023
Sample No. MSKGL/ED/2023-24/06/01526
Date Of Sample : 25/06/2023
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	3510	EPA 6010D_(O)
2.	Arsenic as As (TCLP)	None	<0.02 mg/l	EPA 1311: 1992
3.	Barium as Ba (TCLP)	None	5.1 mg/l	EPA 1311: 1992
4.	Cadmium as Cd (TCLP)	None	<0.1 mg/l	EPA 1311: 1992
5.	Calcium Oxide (as CaO)	mg/kg	1120	TPM/MSK/ P&E /2/24_(O)
6.	Chloride (as Cl)	mg/kg	125	TPM/MSK/ P&E /2/25_(O)
7.	Cobalt as Co (TCLP)	None	<0.1 mg/l	EPA 1311_(O)
8.	Copper as Cu (TCLP)	None	<0.1 mg/l	EPA 1311: 1992
9.	Fluoride (TCLP)	None	0.22 mg/l	EPA 1311_(O)
10.	Iron Oxide (as Fe ₂ O ₃)	mg/kg	31856	TPM/MSK/ P&E /2/31_(O)
11.	Iron as Fe (TCLP)	None	0.99 mg/l	EPA 1311_(O)
12.	Lead as Pb (TCLP)	None	0.19 mg/l	EPA 1311: 1992
13.	Loss on ignition	%	0.85	TPM/MSK/P&E/2/4_(O)
14.	Magnesium Oxide (as MgO)	mg/kg	560	TPM/MSK/ P&E /2/26_(O)
15.	Manganese as Mn (TCLP)	None	0.18 mg/l	EPA 1311_(O)
16.	Mercury as Hg (TCLP)	None	<0.5 mg/l	EPA 1311: 1992
17.	Moisture content	%	32	TPM/MSK/ P&E /2/28_(O)

Prepared By

For Mitra S. K. Private Limited



Authorised Signatory

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TEST REPORT

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Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
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Report No. : MSK/KTN/2023-24/FAW/0002
Date : 12/07/2023
Sample No. MSKGL/ED/2023-24/06/01526
Date Of Sample : 25/06/2023
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
18.	Nickel as Ni (TCLP)	None	<0.1 mg/l	EPA 1311: 1992
19.	P205	mg/kg	560	TPM/MSK/ P&E /2/32_(O)
20.	Particle Size (10 - 50)	None	2.1%	TPM/MSK/ P&E /5/01_(O)
21.	Particle Size (100 - 150 micron)	None	4.2%	TPM/MSK/ P&E /5/01_(O)
22.	Particle Size (50 - 75)	None	1.2%	TPM/MSK/ P&E /5/01_(O)
23.	Particle Size (75 - 100)	None	8.6%	TPM/MSK/ P&E /5/01_(O)
24.	Particle Size (>150)	None	82%	TPM/MSK/ P&E /5/01_(O)
25.	Particle Size (Below 10 micron)	None	1.9%	TPM/MSK/ P&E /5/01_(O)
26.	Permeability	%	21 Cm/hrs	IS 2720 (Part 17)-1986; Rffm:2011_(O)
27.	Pottasium Oxide (as K2O)	mg/kg	190	TPM/MSK/ P&E /2/27_(O)
28.	Silicon Dioxide (as SiO2)	%	43	TPM/MSK/ P&E /2/60_(O)
29.	Sodium Oxide (as Na2O)	mg/kg	280	TPM/MSK/ P&E /2/27_(O)
30.	Specific gravity	None	1.97	IS 2720 (Part-3)-1980; Rffm:2011_(O)
31.	Sulphate as SO3	mg/kg	192	TPM/MSK/P&E/2/37_(O)
32.	Titanium Oxide (as TiO2)	mg/kg	<4.0	EPA 6010D_(O)
33.	Total Chromium as Cr (TCLP)	None	<0.1 mg/l	EPA 1311: 1992
34.	Zinc as Zn (TCLP)	None	<0.1 mg/l	EPA 1311: 1992

Prepared By:

For Mitra S. K. Private Limited

Authorised Signatory