



Ref: PPGCL/ENV/FY/22/ 471

Date: 27.11.2021

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

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

This is for your kind information and record please.

Sincerely

For Prayagraj Power Generation Company Limited

K R Bairwa
Chief - O&M Services

Enclosure: Environment Clearance compliance with

Cc: i) Incharge,

CPCB, Zonal Office (North), Lucknow

ii) Member Secretary

UPPCB, Lucknow

iii) Regional Officer

UPPCB, Prayagraj

Registered Office : Shatabdi Bhawan, B 12 & 13, Sector 4, Gautam Budh Nagar, Noida, Uttar Pradesh - 201301

Plant Address : P.O. - Lohgara, Tehsil - Bara, Prayagraj (Allahabad), Uttar Pradesh - 212107

Phone: + 91-120-6102000/6102009, +91-7525006400, +91-8528846666

CIN: U40101UP2007SGC032835, 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 -2021 to Sep- 2021

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

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

J-13011/60/2008 – I A.II (T) dated 23.03.2015

Period of Compliance Report: 1 April 2021 to 30 Sep 2021

S.No	<u>Stipulated Conditions</u>	<u>Compliance Status</u>
(i)	No additional land in excess of 1468 acres ha shall be acquired for any activity/facility of this project	Noted.
(ii)	A certificate from the Tehsildar for the land use of the project area with respect to single crop/double crop shall be furnished within 15 days from the date of the issue of this letter.	Complied. Required certificate for land use, issued by Tehsildar was submitted vide letter No. PPGCL/109 dated 22.8.2009.
(iii)	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.5% and 34% respectively at any given time.	The average ash percentage in coal for the period April 21 to Sep 21 is 33.45% and Sulphur content is within 0.37%.
(iv)	Two stacks (one bi-flue and one single flue) of 275 m height each shall be provided with continuous online monitoring equipments for SOx and NOx particulate matter. Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack may also be monitored on periodic basis.	Stack of 275 m height is provided with online continuous monitoring equipment in all three units for SOx, NOx, and particulate matter. Average exit velocity of flue gas from Unit I, II and III stack for the period from April 2021 to Sep 2021 is 22.8 m/s, 23.4 m/s and 24.0 m/s respectively. Mercury monitoring is also being carried out through third party. Stack monitoring report is attached as Annexure-I .
(v)	High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	Complied. High efficiency ESP has been installed and in continuous operation. Stack monitoring report is attached as Annexure-I.
(vi)	Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Complied. Dust extraction and dust suppression system has been installed.
(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 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 II .

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

(xiv)	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yards, especially during summer season. Copy of these measures with full details along with location plant lay out shall be submitted to the Ministry as well as to the Regional Office of the Ministry at Lucknow.	Complied. Fire protection system for plant inter-alia includes measure to check / minimize spontaneous fires in coal yard. We have already submitted the details of fire protection system to check / minimize spontaneous fires in coal yard with plant lay out vide our letter no PPGCL/BARA/MOEF/14/05 Date 09.05.2014
(xv)	Storage facilities for auxiliary liquid fuel such as LDO and/HFO/LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur contents in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	Complied.
(xvi)	Regular monitoring of ground water in and around ash pond area including heavy metals (Hg, Cr, As, Pb) shall be carried out, records maintained, and six monthly reports shall be furnished to the Regional Office of this Ministry. The data so obtained should be compared with the base line data so as to ensure that the ground water quality is not adversely affected due to project.	Being complied with. The ground water monitoring report is attached as Annexure III . The parameters are within standards.
(xvii)	A green belt of adequate width and density shall be developed around the plant periphery covering 1/3 of total area preferably with local species.	We have planted approx. 3,13,540 nos. of saplings till Sept 2021. Saplings like Peepal, Bargad, Neem, Seesham, Karanj, Bamboo, Jamun, Ashoka, Alstonia have been planted.
(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 equipments like ear-plugs/ ear muffs etc. have been provided. Noise monitoring report is attached as Annexure -IV .
(xx)	Regular monitoring of ground level concentration of SO ₂ , NO _x , RSPM and Hg shall be carried out in the impact zone and records maintained. If at any stage, these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately.	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.

	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.	Ambient air quality monitoring report is attached as Annexure- V .
(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 April 21 to September 21 an amount of Rs. 101 Lakh (approx.) has been incurred in programs like , education, health, covid response and in covid vaccination program.
(xxiii)	Provision shall be made for the housing of the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health structures to be removed after the completion of the project.	Complied.
(xxiv)	The project proponent shall be advertised in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at the web site of the Ministry of Environment and Forests at http://envfor.nic.in	Complied. Advertisement was published in the Hindustan Times, The Times of India (English) Daily and Dainik Jagran and Amar Ujala (Hindi Daily) on 7 th Oct. 2009 immediately after receipt of EC.
(xxv)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad, Municipal Corporation, Urban Local Body and the Local NGO is any, from whom suggestions/representations, if any received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied Copy of the clearance letter has already been sent to the concerned departments as prescribed.
(xxvi)	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Complied. Separate Environment department is functioning.
(xxvii)	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional	Compliance of EC condition is being submitted on time. Last report was submitted on 31.05.2021.

	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.	Data of stack and ambient air is displayed at main gate of the company and compliance of EC condition on website.
(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 31.05.2021.
(xxix)	The environment statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MOEF by e-mail.	Being complied. Environment statement for FY 2020-2021 was submitted on 27.09.2021
(xxx)	Regional office of the Ministry of Forests located at Lucknow will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project Proponent will upload the compliance status in their website and update the same from time to time at least six monthly basis. Criteria pollutants levels (stack & ambient levels of NO _x) will be displayed at the main gate of the power plant.	Complied. EIA/EMP report, DPR and other relevant documents have already been submitted to the Regional Office of MOEF at Lucknow. Data of stack and ambient air is displayed.
(xxxi)	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	Complied. Separate fund is available for environmental protection measures.
(xxxii)	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and dates of start of land development work and commissioning of plant.	Financial closure was obtained on 6.7.2010 and the construction activity for the project was started in Aug. 2010. All the three units are commissioned and in operation.
(xxxiii)	Full cooperation shall be extended to the Scientists/Officers from the Ministry/Regional Office of the Ministry at Bangalore/the CPCB/the SPCB who would be monitoring the compliance of environmental status.	Agreed.

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

S.No	<u>Stipulated Conditions</u>	<u>Compliance Status</u>
xxxiv	Harnessing solar power within the premises of the plant particularly at available rooftops shall be carried out and status of implementation including actual generation of solar power shall be submitted along with half –yearly monitoring report.	PPGCL had been stressed asset since November 2017 and pursuant to the resolution process M/s Renascent Power Ventures has taken over the plant from 4.12.2019. After taking over we have explored and undertake survey of the area through agency to install system for harnessing solar power. Technical evaluation is in process to install solar roof top panel.
xxxv	A long term study of radio activity and heavy metals contents on coal to be used for the power plant shall be carried through a reputed institute and results thereof analyzed every two years and reported along with monitoring reports. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	Radioactivity test report carried out by BRIT-BARC, Mumbai is attached as annexure -VI . Analysis report of heavy metals in fly ash and ash is enclosed as Annexure-II
xxxvi	Space for FGD shall be provided for future installation as may be required.	Space for FGD has already been provided for future installation.
xxxvii	Fugitive emissions shall be controlled to prevent impact on agricultural or non-agricultural land in the vicinity, if any.	Complied. Dust extraction and dust suppression system has been installed to control fugitive emission.
xxxviii	Fly ash shall not be used for agricultural purpose. No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media so that no leachate shall take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from a reputed institute and accordingly clay lining of adequate thickness shall be provided. This shall be carried out in close co-ordination with State Pollution Control Board who shall ensure that clay lining of appropriate thickness is provided.	MoEF&CC vide OM dated 28 th August 2019 has permitted use of fly ash in abandoned mines / low lying areas / soil conditioner in agriculture.
xxxix	No water bodies including natural drainage system in the area shall be disturbed due to activities associated with setting up / operation of the power plant.	Noted.

xxxx	Green belt shall also be developed around the Ash Pond over and above the Green Belt around the plant boundary.	We have planted approx. 3,13,540 nos. of saplings till Sept 2021. Saplings like Peepal, Bargad, Neem, Seesham, Karanj, Bamboo, Jamun, Ashoka, Alstonia have been planted.
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 Integrated Management policy covering Environment aspect.

**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 along with EC compliance condition.



TESTING • INSPECTION

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

Name & Address of the Customer :

Prayagraj Power Generation Company Ltd.

Vill.: Khan Semra,

Tehsil : Bara,

Uttar Pradesh.

TEST REPORT

Report No. : MSK/KTN/2021-22/STACK/0003

Date : 09.08.2021

Sample No. : MSKGL/ED/2021-22/08/00203

Sample Description : Stack Monitoring

Date of Sampling: 26/07/2021

Sample Mark : Thimble No.- B 47 / Unit - I,
Burning Of Coal

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

ANALYSIS RESULT

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 & ladder	:	Yes	
6.	Boiler Capacity	:	660 (M.W)	
7.	Load	:	530.75 (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	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 341.5 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
SL. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	PM	27.9 at 6% O2	mg/Nm3	IS 11255 (Part I):1985,RA 2014
	SO2	582.6at 6% O2	mg/Nm3	IS 11255 (Part II)-1985, RA:2014
3.	NO2	300.2at 6% O2	mg/Nm3	IS 11255 (Part 7) :2005 RA2017
4.	CO2	11.2	% v/v	IS:13270 :1992 Reaff,2014
5.	CO	<0.2 %/98.6 ppm	ppm	IS:13270 :1992 Reaff,2014
6.	O2	8.0	% v/v	IS:13270 :1992 Reaff,2014
7.	Temperature	124	Deg C	IS 11255 (Part III),2008RA 2018
8.	Barometric pressure	743	mm of Hg	Lab Method
9.	Velocity of gas	22.59	m/s	IS 11255 (Part III),2008RA 2018
10.	Quantity of gas flow	2426217	Nm3/hr	IS 11255 (Part III),2008RA 2018
11.	Moisture content	5.1	%	IS 11255 (Part III),2008RA 2018
12.	Concentration of Mercury	<0.003mg/Nm3	micro gm/m3	USEPA-29 - 25/06/1996

For Mitra S. K. Private Limited

Prepared By

Authorised Signatory

Mitra S. K. Private Limited

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



TESTING • INSPECTION

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sknigam@mitrask.co.in

Name & Address of the Customer :

Prayagraj Power Generation Company Ltd.

Vill.: Khan Semra,

Tehsil : Bara,

Uttar Pradesh.

TEST REPORT

Report No. : MSK/КТN/2021-22/STACK/0007

Date : 09.08.2021

Sample No. : MSKGL/ED/2021-22/08/00207

Sample Description : Stack Monitoring

Date of Sampling: 03/08/2021

Sample Mark : Thimble No.- B 50 / Unit - II,
Burning Of Coal

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

ANALYSIS RESULT

A. General Information About Stack :				
	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 & ladder	:	Yes	
6.	Boiler Capacity	:	660 (M.W)	
7.	Load	:	625 (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	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 393 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
SL. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	PM	41.7 / 48.9 at 6 % O2	mg/Nm3	IS 11255 (Part I):1985,RA 2014
	SO2	512.1 / 600.2 at 6 % O2	mg/Nm3	IS 11255 (Part II)-1985, RA:2014
3.	NO2	270.2 / 316.6 at 6 % O2	mg/Nm3	IS 11255 (Part 7) :2005 RA2017
4.	CO2	11.0	% v/v	IS:13270 :1992 Reaff,2014
5.	CO	<0.2 % / 89.8 ppm	ppm	IS:13270 :1992 Reaff,2014
6.	O2	8.2	% v/v	IS:13270 :1992 Reaff,2014
7.	Temperature	130	Deg C	IS 11255 (Part III),2008RA 2018
8.	Barometric pressure	747	mm of Hg	Lab Method
9.	Velocity of gas	23.11	m/s	IS 11255 (Part III),2008RA 2018
10.	Quantity of gas flow	2546023	Nm3/hr	IS 11255 (Part III),2008RA 2018
11.	Moisture content	<2.0	%	IS 11255 (Part III),2008RA 2018
12.	Concentration of Mercury	<0.003 mg/Nm3	micro gm/m3	USEPA-29 - 25/06/1996

For Mitra S. K. Private Limited

Prepared By
B. Dubey

Chine
Authorised Signatory

Mitra S. K. Private Limited

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



TESTING • INSPECTION

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,
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/STACK/0008
Date : 09.08.2021
Sample No. : MSKGL/ED/2021-22/08/00208
Sample Description : Stack Monitoring
Date of Sampling: 04/08/2021
Sample Mark : Thimble No.- K66647 / Unit - III,
Burning Of Coal

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

ANALYSIS RESULT

A. General Information About Stack :				
	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 & ladder	:	Yes	
6.	Boiler Capacity	:	660 (M.W)	
7.	Load	:	418 (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	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal		2.	Fuel consumption : 372 Tons/Hr.
D. Results of Sampling & Analysis of Gaseous Emission :				
SL No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	PM	38.6 /44.5 at 6 % O2	mg/Nm3	IS 11255 (Part I):1985,RA 2014
	SO2	518.6 /598.4 at 6 % O2	mg/Nm3	IS 11255 (Part II)-1985, RA:2014
3.	NO2	269.4 / 310.9 at 6 % O2	mg/Nm3	IS 11255 (Part 7) :2005 RA2017
4.	CO2	11.4	% v/v	IS:13270 :1992 Reaff,2014
5.	CO	<0.2 % / 87.6 ppm	ppm	IS:13270 :1992 Reaff,2014
6.	O2	8.0	% v/v	IS:13270 :1992 Reaff,2014
7.	Temperature	127	Deg C	IS 11255 (Part III),2008RA 2018
8.	Barometric pressure	745	mm of Hg	Lab Method
9.	Velocity of gas	23.44	m/s	IS 11255 (Part III),2008RA 2018
10.	Quantity of gas flow	2601836	Nm3/hr	IS 11255 (Part III),2008RA 2018
11.	Moisture content	<2.0	%	IS 11255 (Part III),2008RA 2018
12.	Concentration of Mercury	<0.003 mg/Nm3	micro gm/m3	USEPA-29 - 25/06/1996

For Mitra S. K. Private Limited

Prepared By

Authorised Signatory

Mitra S. K. Private Limited

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

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TEST REPORT

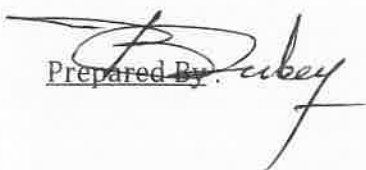
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/APW/0061
Date : 30/09/2021
Sample No. : MSKNB/ED/2021-22/09/00076
Date Of Sample : 07/09/2021
Sample Description : Ash Pond Water
Sample Mark : Ash Dyke

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

No.	Parameter	UOM	Result	Method
1.	Copper (as Cu)	mg/l	<0.05	APHA (23rd Edition)3120B 2017 (ICP OES)
2.	Lead (as Pb)	mg/l	<0.05	APHA (23rd Edition)3120B 2017
3.	Mercury (as Hg)	mg/l	<0.001	IS 3025(Part 48)-1994; Rffm:2014
4.	Nickel (as Ni)	mg/l	<0.05	APHA (23rd Edition)3120B 2017
5.	Arsenic(as As)	mg/l	<0.005	APHA (23rd Edition)3120B 2017 (ICP OES)

For Mitra S. K. Private Limited

Prepared By: 


Authorised Signatory

ECOMEN LABORATORIES PVT. LTD.

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An approved Laboratory from Ministry of Environment, Forest and Climate Change, Govt. of India, New Delhi

FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO: ECO LAB/ Ash/03/21

TEST REPORT ISSUE DATE: 31.03.2021

TEST REPORT OF FLY ASH*

Name of the Customer : M/s Prayagraj Power Generation Co. Ltd.
 Address of the Customer : United Bara, Shankargarh
 Prayagraj (U.P.)
 Sample Collected by : Mr. Maan Singh
 Date of Sampling : 13.03.2021
 Date of Sample Receiving : 15.03.2021
 Packing of Sample : As per requirement
 Date of Analysis : 15.03.2021 to 26.03.2021
 Sample Type : Fly Ash

Sl. No.	Test Parameters	Results
1.	Moisture (%)	4.20
2.	Loss on Ignition (%)	3.29
3.	Specific Gravity (gm/cc)	1.80
4.	Permeability as (cm/s)	1.7×10^{-4}
5.	Silica as SiO ₂ (%)	47.56
6.	Aluminum Oxide as Al ₂ O ₃ (%)	7.21
7.	Iron as Fe ₂ O ₃ (%)	4.78
8.	Sodium as Na ₂ O (%)	0.61
9.	Potassium as K ₂ O (%)	1.42
10.	Chloride as Cl (%)	1.5
11.	Calcium as CaO (%)	2.68
12.	Magnesium as MgO (%)	0.78
13.	Sulphate as SO ₃ (%)	0.037
14.	Phosphorous as P ₂ O ₅ (%)	0.020
15.	Titanium Oxide as TiO ₂ (%)	0.16
16.	Arsenic as As (mg/kg)	BDL
17.	Mercury as Hg (mg/kg)	BDL
18.	Lead as Pb (mg/kg)	0.64
19.	Total Chromium as Cr (mg/kg)	2.0
20.	Barium as Ba (mg/kg)	1.08
21.	Cadmium as Cd (mg/kg)	1.34
22.	Cobalt as Co (mg/kg)	2.6
23.	Copper as Cu (mg/kg)	7.0
24.	Manganese as Mn (mg/kg)	15.10
25.	Nickel as Ni (mg/kg)	50.36
26.	Zinc as Zn (mg/kg)	272.0
27.	Fluoride as F (mg/kg)	1.42
Particle Size		
28.	< 20 (%)	35.8
29.	20-45 (%)	28
30.	45-75 (%)	17.9
31.	75-106	11
32.	106-150	6.12
33.	> 150	1.18

The results are related only to item tested. BDL = Below Detection Limit
 Analyst: *[Signature]* Authorized Signatory: *[Signature]*

[Signature]
 Quality Manager

End of the Report

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An approved Laboratory from Ministry of Environment, Forest and Climate Change, Govt. of India, New Delhi

FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO: ECO LAB/Ash/03/21

TEST REPORT ISSUE DATE: 31.03.2021

TEST REPORT OF BOTTOM ASH*

Name of the Customer : M/s Prayagraj Power Generation Co. Ltd.
 Address of the Customer : United Bara, Shankargarh
 Prayagraj (U.P.)
 Sample Collected by : Mr. Maan Singh
 Date of Sampling : 13.03.2021
 Date of Sample Receiving : 15.03.2021
 Packing of Sample : As per requirement
 Date of Analysis : 15.03.2021 to 26.03.2021
 Sample Type : Bottom Ash

Sl. No.	Test Parameters	Results
1.	Moisture (%)	4.56
2.	Loss on Ignition (%)	4.60
3.	Specific Gravity (gm/cc)	1.89
4.	Permeability as (cm/s)	1.70×10^{-5}
5.	Silica as SiO ₂ (%)	54.0
6.	Aluminum Oxide as Al ₂ O ₃ (%)	5.98
7.	Iron as Fe ₂ O ₃ (%)	5.45
8.	Sodium as Na ₂ O (%)	0.53
9.	Potassium as K ₂ O (%)	1.23
10.	Chloride as Cl (%)	1.32
11.	Calcium as CaO (%)	2.92
12.	Magnesium as MgO (%)	1.45
13.	Sulphate as SO ₃ (%)	0.023
14.	Phosphorous as P ₂ O ₅ (%)	0.018
15.	Titanium Oxide as TiO ₂ (%)	0.21
16.	Arsenic as As (mg/kg)	BDL
17.	Mercury as Hg (mg/kg)	BDL
18.	Lead as Pb (mg/kg)	1.10
19.	Total Chromium as Cr (mg/kg)	3.54
20.	Barium as Ba (mg/kg)	1.82
21.	Cadmium as Cd (mg/kg)	1.16
22.	Cobalt as Co (mg/kg)	2.61
23.	Copper as Cu (mg/kg)	9.8
24.	Manganese as Mn (mg/kg)	22.0
25.	Nickel as Ni (mg/kg)	63.50
26.	Zinc as Zn (mg/kg)	368.0
27.	Fluoride as F (mg/kg)	1.52
Particle Size		
28.	< 20 (%)	10.25
29.	20-45 (%)	11.5
30.	45-75 (%)	16.03
31.	75-106	29.55
32.	106-150	24.36
33.	> 150	8.31

*The result are related only to item tested. BDL = Below Detection Limit

Analyst

Authorized Signatory

Quality Manager

End of the Report

Ecomen Laboratories Pvt. Ltd.
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ECOMEN LABORATORIES PVT. LTD.

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Annexure-III
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LABORATORIES PVT LTD

An approved Laboratory from Ministry of Environment , Forests and climate Change, Govt. of India, New Delhi

FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO: ECO LAB/1406/GW/04/21

TEST REPORT ISSUE DATE: 08.05.2021

TEST REPORT OF GROUND WATER*

Name of the Customer : M/s Prayagraj Power Generation Company Ltd.

Address of the Customer : P.O.-Lohgara, Tehsil- Bara

Distt. Prayagraj (Allahabad), (U.P)-212107

Sampling Method : APHA/ IS: 3025

Sample Collected by : Mr. Maan Singh

Sample Quality : As per requirement.

Date of Sampling : 16.04.2021

Date of Sample Receiving : 18.04.2021

Packing of Sample : As per requirement.

Date of Analysis : 18.04.2021 to 28.04.2021

Source of Sample : Shiv Mandir Lohagara (Hand Pump No.6)

Sample ID Code : ELW-14578

Sl. No.	TESTS	PROTOCOL	RESULT	Detection Range	INDIAN STANDARDS as per IS 10500:1991(Reaff:2012)	
					Desirable	Permissible
1.	Colour (Hazen unit)	APHA, 23 rd Ed. 2017, 2120 B	<5.0	5-100	5.00	15.0
2.	Odour	APHA, 23 rd Ed. 2017, 2150 B	Agreeable	Qualitative	Agreeable	Agreeable
3.	Taste	APHA, 23 rd Ed. 2017, A+B	Agreeable	Qualitative	Agreeable	Agreeable
4.	Turbidity as (NTU)	APHA, 23 rd Ed. 2017, 2130-A+B	1.0	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.23	2.0 - 12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	234.0	5-10000	500	2000
7.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340A+C	148.0	5-1500	200.0	600.0
8.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	124.0	5-1500	200	600
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	35.20	5-1500	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	14.58	5-1500	30.0	100.0
11.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500 SO ₄ - E	18.50	1.0-250	200.0	400.0
12.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ - B	BDL	5.0 - 100	45.0	No Relax.
13.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	28.0	5-1000	250.0	1000.0
14.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500 F-A+C	0.21	0.05-10	1.0	1.5
15.	Anionic Detergents (As MBAS)(mg/l)	APHA, 23 rd Ed. 2017, 5540 A+C	BDL	0.01-5	0.2	1.0
16.	Copper as Cu (mg/l)	APHA, 23 rd Ed. 2017, 3111A+C	BDL	0.05-5	0.05	1.5
17.	Chromium as Cr+6 (mg/l)	APHA, 23 rd Ed. 2017, 3500 Cr A+B	BDL	0.05-20	0.05	No Relax.
18.	Iron as Fe (mg/l)	APHA, 23 rd Ed. 2017 (3500 Fe B)	0.13	0.02-50	0.3	No Relax.
19.	Manganese as Mn (mg/l)	APHA, 23 rd Ed. 2017, 3111 A+B	BDL	0.09-5	0.10	0.30
20.	Mercury as Hg (mg/l)	APHA, 23 rd Ed. 2017, 3112 A+B	BDL	0.001-2	0.001	No Relax.
21.	Cadmium as Cd (mg/l)	APHA, 23 rd Ed. 2017, 3111 A+B	BDL	0.02-5	0.003	No Relax.
22.	Molybdenum as Mo (mg/l)	APHA, 23 rd Ed. 2017, 3111 A+B	BDL	0.05-10	0.07	No Relax.
23.	Nickel as Ni (mg/l)	APHA, 23 rd Ed. 2017, 3111 A+B	BDL	0.02-2	0.02	No Relax.
24.	Lead as Pb (mg/l)	APHA, 23 rd Ed. 2017, 3111 A+B	BDL	0.02-5	0.01	No Relax.
25.	Selenium as Se (mg/l)	APHA 23 rd Ed. 2017 3500 Se-C	BDL	0.05-10	0.01	No Relax.
26.	Arsenic as As (mg/l)	APHA, 23 rd Ed. 2017, 3114 A+B	BDL	0.01-2	0.01	No Relax.
27.	Aluminium as Al (mg/l)	APHA, 23 rd Ed. 2017, 3111 A+B	BDL	1-100	0.03	0.2
28.	Barium as Ba (mg/l)	APHA, 23 rd Ed. 2017, 3111 A+B	BDL	0.05-5	0.7	No Relax.
29.	Zinc as Zn (mg/l)	APHA, 23 rd Ed. 2017, 3111 A+B	BDL	0.2-50	5.0	15.0
30.	Boron as B (mg/l)	APHA, 23 rd Ed. 2017, 4500B A+C	BDL	0.2-10	0.5	1.0
31.	Cyanide as CN (mg/l)	APHA, 23 rd Ed. 2017, 4500CN-A+D	BDL	0.005-5	0.05	No Relax.
32.	Phenolic Compounds as C ₆ H ₅ OH (mg/l)	APHA, 23 rd Ed. 2017, 5530 A+C	BDL	0.004-5	0.001	0.002
33.	Free Residual Chlorine (mg/l)	APHA, 23 rd Ed. 2017, 4500-Cl B	BDL	0.1-5	0.20	1.0
34.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, 9221, B+C	Absent	1.8	Absent	Absent
35.	E.coli (MPN/100 ml)	APHA, 23 rd Ed. 2017, 9221, B+E	Absent	1.8	Absent	Absent

*The result are related only to item tested, BDL = Below Detection Limit.

Analyst

Authorized Signatory

Quality Manager

Ecomen Laboratories Pvt. Ltd.

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FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO: ECO LAB/1406/GW/04/21

TEST REPORT ISSUE DATE: 08.05.2021

TEST REPORT OF GROUND WATER*

Name of the Customer : M/s Prayagraj Power Generation Company Ltd.
Address of the Customer : P.O.-Lohgara, Tehsil- Bara
Distt. Prayagraj (Allahabad), (U.P)-212107
Sampling Method : APHA/ IS: 3025
Sample Collected by : Mr. Maan Singh
Sample Quality : As per requirement.
Date of Sampling : 16.04.2021
Date of Sample Receiving : 18.04.2021
Packing of Sample : As per requirement.
Date of Analysis : 18.04.2021 to 28.04.2021
Source of Sample : Kapari Village, Near Panchayat Bhawan (Hand Pump-2)
Sample ID Code : ELW-14574

Sl. No.	TESTS	PROTOCOL	RESULT	Detection Range	INDIAN STANDARDS as per IS 10500:1991(Reaff:2012)	
					Desirable	Permissible
1.	Colour (Hazen unit)	APHA, 23 rd Ed. 2017, 2120 B	<5.0	5-100	5.00	15.0
2.	Odour	APHA, 23 rd Ed. 2017, 2150 B	Agreeable	Qualitative	Agreeable	Agreeable
3.	Taste	APHA, 23 rd Ed. 2017, A+B	Agreeable	Qualitative	Agreeable	Agreeable
4.	Turbidity as (NTU)	APHA, 23 rd Ed. 2017, 2130-A+B	1.30	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.58	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017,2540-C	448.0	5-10000	500	2000
7.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340A+C	168.0	5-1500	200.0	600.0
8.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	156.0	5-1500	200	600
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017,3500 Ca A+B	38.40	5-1500	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	17.49	5-1500	30.0	100.0
11.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500 SO ₄ - E	28.20	1.0-250	200.0	400.0
12.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ - B	9.50	5.0 - 100	45.0	No Relax.
13.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	30.0	5-1000	250.0	1000.0
14.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500 F-A+C	0.27	0.05-10	1.0	1.5
15.	Anionic Detergents (As MBAS)(mg/l)	APHA, 23 rd Ed. 2017, 5540 A+C	BDL	0.01-5	0.2	1.0
16.	Copper as Cu (mg/l)	APHA, 23 rd Ed. 2017, 3111A+C	BDL	0.05-5	0.05	1.5
17.	Chromium as Cr+6 (mg/l)	APHA, 23 rd Ed. 2017,3500 Cr A+B	BDL	0.05-20	0.05	No Relax.
18.	Iron as Fe (mg/l)	APHA,23 rd Ed.2017 (3500 Fe B)	0.23	0.02-50	0.3	No Relax.
19.	Manganese as Mn (mg/l)	APIIA, 23 rd Ed. 2017,3111 A+B	BDL	0.09-5	0.10	0.30
20.	Mercury as Hg (mg/l)	APHA, 23 rd Ed. 2017, 3112 A+B	BDL	0.001-2	0.001	No Relax.
21.	Cadmium as Cd (mg/l)	APIIA, 23 rd Ed. 2017, 3111 A+B	BDL	0.02-5	0.003	No Relax
22.	Molybdenum as Mo (mg/l)	APHA, 23 rd Ed. 2017, 3111 A+B	BDL	0.05-10	0.07	No Relax.
23.	Nickel as Ni (mg/l)	APHA, 23 rd Ed. 2017, 3111 A+B	BDL	0.02-2	0.02	No Relax
24.	Lead as Pb (mg/l)	APIIA, 23 rd Ed. 2017, 3111 A+B	BDL	0.02-5	0.01	No Relax.
25.	Selenium as Se (mg/l)	APHA 23 rd Ed.2017 3500 Se-C	BDL	0.05-10	0.01	No Relax
26.	Arsenic as As (mg/l)	APHA, 23 rd Ed. 2017, 3114 A+B	BDL	0.01-2	0.01	No Relax
27.	Aluminium as Al (mg/l)	APHA, 23 rd Ed. 2017, 3111 A+B	BDL	1-100	0.03	0.2
28.	Barium as Ba (mg/l)	APHA, 23 rd Ed. 2017, 3111 A+B	BDL	0.05-5	0.7	No Relax.
29.	Zinc as Zn (mg/l)	APHA, 23 rd Ed. 2017, 3111 A+B	0.10	0.02-50	5.0	15.0
30.	Boron as B (mg/l)	APHA, 23 rd Ed. 2017, 4500B A+C	BDL	0.2-10	0.5	1.0
31.	Cyanide as CN (mg/l)	APHA, 23 rd Ed. 2017, 4500CN-A+D	BDL	0.005-5	0.05	No Relax
32.	Phenolic Compounds as C ₆ H ₅ OH (mg/l)	APHA, 23 rd Ed. 2017, 5530 A+C	BDL	0.004-5	0.001	0.002
33.	Free Residual Chlorine (mg/l)	APIIA, 23 rd Ed. 2017, 4500-Cl B	BDL	0.1-5	0.20	1.0
34.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, 9221, B+C	Absent	1.8	Absent	Absent
35.	E.coli (MPN/100 ml)	APHA, 23 rd Ed. 2017, 9221, B+E	Absent	1.8	Absent	Absent

*The result are related only to item tested, BDL = Below Detection Limit.

Abhishek
Analyst

Abhishek
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TESTING • INSPECTION

TEST REPORT

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

Report No. : MSK/KTN/2021-22/GDW/0025
Date : 31/07/2021
Sample No. : MSKGL/ED/2021-22/07/01387
Date Of Sample : 24/07/2021
Sample Description : Ground Drinking Water
Sample Mark : HP-1/Ultratech Near Transport Area

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

ANALYSIS RESULT

SL No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
02.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C, 2017
03.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
04.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Calcium (as Ca)	55	75	200	mg/l	APHA (23rd Edition) 3500 Ca B, 2017
06.	Chloride (as Cl)	23	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
07.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
08.	Fluoride (as F)	0.56	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm: 2014
10.	Iron (as Fe)	0.11	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
11.	Magnesium (as Mg)	3	30	100	mg/l	APHA (23rd Edition) 3500 Mg B, 2017
12.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
13.	Nitrate (as NO ₃)	3.5	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
14.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
15.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
16.	Sulphate (as SO ₄)	9.4	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
17.	Alkalinity (as CaCO ₃)	163	200	600	mg/l	APHA (23rd Edition) 2320B 2017
18.	Total Hardness (as CaCO ₃)	150	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
19.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
20.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
21.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm: 2014
23.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
24.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)

Mitra S. K. Private Limited

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



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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition) 3120B 2017
27.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
28.	Total coliform bacteria	<1.8		NA	MPN/100ml	APHA 23rd Edition 9221 B
29.	E.coli	Not Detected		NA	/100ml	APHA 23rd Edition 9221 F
	pH	6.62 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
31.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
32.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition) 2150B
33.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm 2012
34.	Turbidity	2.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	Total Dissolved Solids (as TDS)	234	500	2000	mg/l	APHA (23rd Edition) 2540C

For Mitra S. K. Private Limited

Authorised Signatory

Prepared By:

Mitra S. K. Private Limited

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



TESTING • INSPECTION

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TEST REPORT

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

Report No. : MSK/KTN/2021-22/GDW/0040
Date : 18/08/2021
Sample No. : MSKGL/ED/2021-22/08/00408
Date Of Sample : 10/08/2021
Sample Description : Ground Drinking Water
Sample Mark : HP-4, Jorvat School

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
02.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C, 2017
03.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
04.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Calcium (as Ca)	45	75	200	mg/l	APHA (23rd Edition) 3500 Ca B, 2017
06.	Chloride (as Cl)	98	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
07.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
08.	Fluoride (as F)	0.18	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
09.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
10.	Iron (as Fe)	<0.05	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
11.	Magnesium (as Mg)	12	30	100	mg/l	APHA (23rd Edition) 3500 Mg B, 2017
12.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
13.	Nitrate (as NO ₃)	38	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
14.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
15.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
16.	Sulphate (as SO ₄)	50	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
17.	Alkalinity (as CaCO ₃)	124	200	600	mg/l	APHA (23rd Edition) 2320B 2017
18.	Total Hardness (as CaCO ₃)	160	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
19.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
20.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
21.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
23.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
24.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)

Mitra S. K. Private Limited

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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
27.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
28.	Total coliform bacteria	<2		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)
29.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
	pH	6.73 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
31.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
32.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
33.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
34.	Turbidity	<1.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	Total Dissolved Solids (as TDS)	372	500	2000	mg/l	APHA (23rd Edition) 2540C


Prepared By :

For Mitra S. K. Private Limited


Authorised Signatory

Mitra S. K. Private Limited

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

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

Report No. : MSK/KTN/2021-22/GDW/0041
Date : 18/08/2021
Sample No. : MSKGL/ED/2021-22/08/00409
Date Of Sample : 10/08/2021
Sample Description : Ground Drinking Water
Sample Mark : HP-5, Khan Semra

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
02.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C, 2017
03.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
04.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Calcium (as Ca)	48	75	200	mg/l	APHA (23rd Edition) 3500 Ca B, 2017
06.	Chloride (as Cl)	150	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
07.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
08.	Fluoride (as F)	0.29	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
09.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
10.	Iron (as Fe)	<0.05	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
11.	Magnesium (as Mg)	16	30	100	mg/l	APHA (23rd Edition) 3500 Mg B, 2017
12.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
13.	Nitrate (as NO ₃)	28	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
14.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
15.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
16.	Sulphate (as SO ₄)	58	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
17.	Alkalinity (as CaCO ₃)	196	200	600	mg/l	APHA (23rd Edition) 2320B 2017
18.	Total Hardness (as CaCO ₃)	188	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
19.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
20.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
21.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
23.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
24.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Arsenic (as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)

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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
27.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
28.	Total coliform bacteria	<2		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)
29.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
	pH	7.09 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
31.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
32.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
33.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
34.	Turbidity	4.2	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	Total Dissolved Solids (as TDS)	532	500	2000	mg/l	APHA (23rd Edition) 2540C


Prepared By :

For Mitra S. K. Private Limited


Authorised Signatory

Mitra S. K. Private Limited

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Malhar Road, NH-7
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TESTING • INSPECTION

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TEST REPORT

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

Report No. : MSK/KTN/2021-22/GDW/0038
Date : 18/08/2021
Sample No. : MSKGL/ED/2021-22/08/00406
Date Of Sample : 10/08/2021
Sample Description : Ground Drinking Water
Sample Mark : HP-2, Kapari Panchayat Bhawan

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
02.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C, 2017
03.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
04.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Calcium (as Ca)	43	75	200	mg/l	APHA (23rd Edition) 3500 Ca B, 2017
06.	Chloride (as Cl)	138	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
07.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
08.	Fluoride (as F)	0.17	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
09.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
10.	Iron (as Fe)	0.24	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
11.	Magnesium (as Mg)	12	30	100	mg/l	APHA (23rd Edition) 3500 Mg B, 2017
12.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
13.	Nitrate (as NO ₃)	40	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
14.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
15.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
16.	Sulphate (as SO ₄)	56	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
17.	Alkalinity (as CaCO ₃)	152	200	600	mg/l	APHA (23rd Edition) 2320B 2017
18.	Total Hardness (as CaCO ₃)	160	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
19.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
20.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
21.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
23.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
24.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)

Mitra S. K. Private Limited

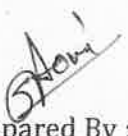
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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
27.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
28.	Total coliform bacteria	<2		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)
29.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
	pH	6.86 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
31.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
32.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
33.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
34.	Turbidity	3.3	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	Total Dissolved Solids (as TDS)	478	500	2000	mg/l	APHA (23rd Edition) 2540C

Prepared By : 

For Mitra S. K. Private Limited


Authorised Signatory

Mitra S. K. Private Limited

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TESTING • INSPECTION

TEST REPORT

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

Report No. : MSK/KTN/2021-22/GDW/0054
Date : 29/09/2021
Sample No. : MSKGL/ED/2021-22/09/00902
Date Of Sample : 08/09/2021
Sample Description : Ground Drinking Water
Sample Mark : HP-1, Kapari Transport Area

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
02.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C, 2017
03.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
04.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Calcium (as Ca)	81	75	200	mg/l	APHA (23rd Edition) 3500 Ca B, 2017
06.	Chloride (as Cl)	43	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
07.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
08.	Fluoride (as F)	0.17	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
09.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
10.	Iron (as Fe)	0.16	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
	Magnesium (as Mg)	11	30	100	mg/l	APHA (23rd Edition) 3500 Mg B, 2017
12.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
13.	Nitrate (as NO ₃)	15	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
14.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
15.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
16.	Sulphate (as SO ₄)	15	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
17.	Alkalinity (as CaCO ₃)	261	200	600	mg/l	APHA (23rd Edition) 2320B 2017
18.	Total Hardness (as CaCO ₃)	248	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
19.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
20.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
21.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
23.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
24.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)

Mitra S. K. Private Limited

Above Punjab National Bank
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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
27.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
28.	Total coliform bacteria	<2		NA	MPN/100ml	IS 1622 : 1981 (RA '2019)
29.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
30.	pH	7.70 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
31.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
32.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
33.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
34.	Turbidity	<1.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	Total Dissolved Solids (as TDS)	392	500	2000	mg/l	APHA (23rd Edition) 2540C

Prepared By

For Mitra S. K. Private Limited

Authorised Signatory

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/2021-22/GDW/0060
Date : 29/09/2021
Sample No. : MSKGL/ED/2021-22/09/00908
Date Of Sample : 08/09/2021
Sample Description : Ground Drinking Water
Sample Mark : HP-7, Mishrapur

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
02.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
03.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
04.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Calcium (as Ca)	79	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
06.	Chloride (as Cl)	275	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
07.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
08.	Fluoride (as F)	0.16	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
09.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
10.	Iron (as Fe)	<0.05	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
	Magnesium (as Mg)	37	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
12.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
13.	Nitrate (as NO ₃)	43	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
14.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
15.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
16.	Sulphate (as SO ₄)	198	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
17.	Alkalinity (as CaCO ₃)	253	200	600	mg/l	APHA (23rd Edition) 2320B 2017
18.	Total Hardness (as CaCO ₃)	207	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
19.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
20.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
21.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
23.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
24.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)

Mitra S. K. Private Limited

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



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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition) 3120B 2017
27.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
28.	Total coliform bacteria	<2		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)
29.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
30.	pH	7.12 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
31.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
32.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition) 2150B
33.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
34.	Turbidity	4.2	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	Total Dissolved Solids (as TDS)	529	500	2000	mg/l	APHA (23rd Edition) 2540C

For Mitra S. K. Private Limited

Authorised Signatory

Prepared By :

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/2021-22/NOISE/0013
Date : 21/08/2021
Sample No. : MSKGL/ED/2021-22/08/00460
Date Of Sample : 11/08/2021
Sample Description : NOISE MONITORING

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

ANALYSIS RESULT

SL. No.	Location	Date Of Monitoring	Type Of Area	Results in Leq dB(A) Day Time	Results in Leq dB(A) Night Time
1.	TURBINE AREA	11.08.2021.	INSIDE PLANT	73.8	70.6

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/2021-22/NOISE/0021
Date : 01/10/2021
Sample No. : MSKGL/ED/2021-22/09/01387
Date Of Sample : 16/09/2021
Sample Description : NOISE MONITORING

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

ANALYSIS RESULT

SL. No.	Location	Date Of Monitoring	Type Of Area	Results in Leq dB(A) Day Time	Results in Leq dB(A) Night Time
1.	TURBINE AREA	16.09.2021.	INSIDE PLANT	74.1	69.8

Prepared By

For Mitra S. K. Private Limited

Authorised Signatory

ECOMEN LABORATORIES PVT. LTD.

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Phone No. : (91-522) 2746282, 2745726 Telefax No.: (91 - 522) 2745726

E-mail: ravi.bhargava@gmail.com, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1Z

Annexure-V
eco Mer
LABORATORIES PVT LTD.

An approved Laboratory from Ministry of Environment , Forests and climate Change, Govt. of India, New Delhi

FORMAT NO. ECO/QS/FORMAT/10

TEST REPORT NO: ECO LAB/AAQ/04/21

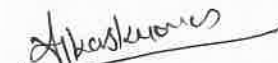
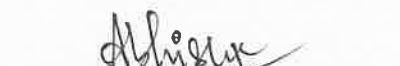
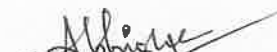
TEST REPORT ISSUE DATE:03.05.2021

Ambient Air Quality Results*

Name of the Customer : M/s Prayagraj Power Generation Company Ltd.
Address of the Customer : P.O.-Lohgara, Tehsil- Bara
Distt. Prayagraj (Allahabad), (U.P)-212107
Location : Near Horticulture
Sampling Method : IS: 5182
Instrument Used : RDS & FDS

Sl. No.	Date of Monitoring	Concentration of Pollutant				
		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
1	01.04.2021	85.30	40.20	10.60	21.30	1.10
2	05.04.2021	88.10	39.50	9.60	19.05	1.22
3	07.04.2021	81.20	40.30	9.20	20.30	1.40
4	12.04.2021	77.20	38.50	10.80	24.50	1.20
5	14.04.2021	75.30	39.70	12.30	18.60	1.30
6	19.04.2021	80.20	41.00	9.80	18.98	0.98
7	21.04.2021	75.30	40.60	11.20	17.60	1.10
Average		80.37	39.97	10.5	20.04	1.18
Limit as per CPCB notification New Delhi, 18 th Nov, 2009. for Ambient air quality		100	60	80	80	2.0
Standard Method		IS : 5182 (Part-23) 2006	NAAQM Volume-I by CPCB	IS : 5182 (Part-2) 2001	IS : 5182 (Part-6) 2006	IS : 5182 (Part-10)

*This results are related only to tested items.


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Authorized Signatory
Ecomen Laboratories Pvt. Ltd.
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Quality Manager

ECOMEN LABORATORIES PVT. LTD.

Flat No. 8, 2nd Floor, Arif Chamber-V, Sector H, Aliganj, Lucknow - 226 024

Phone No. : (91-522) 2746282, 2745726 Telefax No.: (91 - 522) 2745726

E-mail: ravi.bhargava@gmail.com, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1Z

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FORMAT NO. ECO/QS/FORMAT/10

TEST REPORT NO: ECO LAB/AAQ/05/21

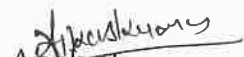
TEST REPORT ISSUE DATE: 02.06.2021

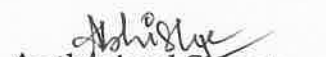
Ambient Air Quality Results*

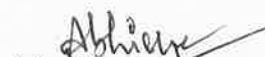
Name of the Customer : M/s Prayagraj Power Generation Company Ltd.
 Address of the Customer : P.O.-Lohgara, Tehsil- Bara
 Distt. Prayagraj (Allahabad), (U.P)-212107
 Location : Fire Station
 Sampling Method : IS: 5182
 Instrument Used : RDS & FDS

Sl. No.	Date of Monitoring	Concentration of Pollutant				
		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
1	01.05.2021	78.30	35.20	10.30	18.30	0.8
2	05.05.2021	82.30	41.10	9.30	15.60	0.85
3	07.05.2021	73.20	36.20	12.30	18.30	0.66
4	12.05.2021	75.30	39.60	10.20	15.20	0.88
5	14.05.2021	68.30	33.50	9.30	17.60	0.92
6	19.05.2021	75.60	38.20	8.80	14.60	0.75
7	21.05.2021	69.30	40.30	9.60	14.60	0.89
Average		74.61	37.73	9.97	16.31	0.82
Limit as per CPCB notification New Delhi, 18 th Nov, 2009. for Ambient air quality		100	60	80	80	2.0
Standard Method		IS : 5182 (Part-23) 2006	NAAQM Volume-I by CPCB	IS : 5182 (Part-2) 2001	IS : 5182 (Part-6) 2006	IS : 5182 (Part-10)

*This results are related only to tested items.


 Analyst


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 Quality Manager

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Mitra S. K. Private Limited

Above Punjab National Bank
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CIN : U51909WB1956PTC023037



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TEST REPORT

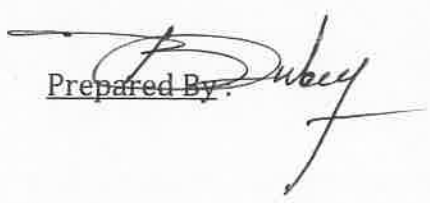
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/AA/0001-0003
Date : 14/07/2021
Sample No. : MSKGL/ED/2021-22/07/00105-00107
Date Of Sample : 30/06/2021
Sample Description : AMBIENT AIR MONITORING

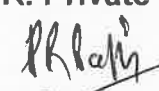
Ref. No. & Date : 9200000102. Dt -24/05/2021.

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	87.1	49.6	8.6	19.8
2.	HORTICULTURE AREA	81.8	45.4	7.9	16.3
3.	ITI COLLEGE	73.7	37.1	6.8	15.1
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
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TEST REPORT

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

Report No. : MSK/KTN/2021-22/AA/0013-0015
Date : 17/08/2021
Sample No. : MSKGL/ED/2021-22/08/00396-00398
Date Of Sample : 30/07/2021
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

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

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	Lohgara Village	69.8	36.8	<6.0	12.3
2.	Bemara Village	64.4	42.8	6.5	26.3
3.	Kapari Village	59.8	33.1	6.2	16.4
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
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CIN : U51909WB1956PTC023037



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TEST REPORT

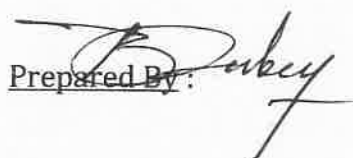
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/AA/0044-0047
Date : 02/09/2021
Sample No. : MSKGL/ED/2021-22/08/01132-01135
Date Of Sample : 23/08/2021
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

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

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	CHP Area	86.5	48.6	10.2	32.8
2.	Fire Station	81.5	45.7	9.6	29.5
3.	Horticulture	77.6	43.2	8.7	22.4
4.	ITI College	49.5	28.7	6.7	26.5
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


Authorised Signatory

Mitra S. K. Private Limited

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



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TEST REPORT

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

Report No. : MSK/KTN/2021-22/AA/0071-0074
Date : 01/10/2021
Sample No. : MSKGL/ED/2021-22/09/01365-01368
Date Of Sample : 16/09/2021
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

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

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	CHP Area	78.6	36.5	8.2	37.8
2.	Fire Station	57.6	32.2	6.5	16.5
3.	Horticulture	87.5	48.7	8.6	32.2
4.	ITI College	47.3	21.6	<6.0	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
Kuthla, Katni-483501 (M.P.)
CIN : U51909WB1956PTC023037



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TEST REPORT

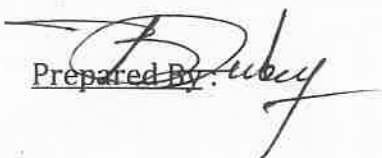
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/AA/0085-0088
Date : 01/10/2021
Sample No. : MSKGL/ED/2021-22/09/01379-01382
Date Of Sample : 23/09/2021
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

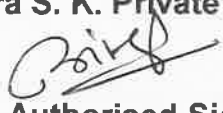
Ref. No. & Date : 9200000102. Dt -24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	CHP Area	82.7	38.2	7.8	32.2
2.	Horticulture	71.6	38.5	7.7	30.7
3.	Fire Station	52.3	30.2	6.7	19.6
4.	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

Mitra S. K. Private Limited

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



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TEST REPORT

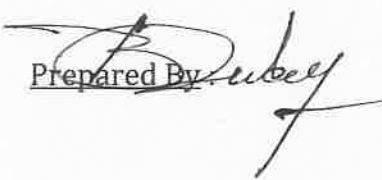
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/AA/0054-0056
Date : 28/09/2021
Sample No. : MSKGL/ED/2021-22/09/00848-00850
Date Of Sample : 03/09/2021
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

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

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	Kapari Village	54.9	29.6	6.3	21.4
2.	Lohgara Village	62.9	35.8	7.8	22.4
3.	Bemara Village	57.6	26.8	6.2	18.5
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
Kuthia, Katni-483501 (M.P.)
CIN : U51909WB1956PTC023037



TESTING • INSPECTION

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

TEST REPORT

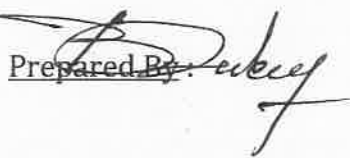
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2021-22/AA/0096-0098
Date : 08/10/2021
Sample No. : MSKGL/ED/2021-22/09/01709-01711
Date Of Sample : 28/09/2021
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

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

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	Kapari Village	63.2	28.7	6.6	21.5
2.	Bemara Village	53.2	25.7	<6.0	17.8
3.	Lohgara Village	51.2	23.8	<6.0	18.2
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


Authorised Signatory

HLR/TE66432000000-2023



NO.: 497 A 49623

विज्ञानीय / वैद्यकीय कक्षा / कोम्प्लेक्स
BRIT/ BARC Vashi Complex
सेक्टर-20, वाशी / Sec-20, Vashi
नवी मुंबई / Navi Mumbai-400 703
www.britatom.gov.in

भारत सरकार / GOVERNMENT OF INDIA

परमाणु ऊर्जा विभाग / DEPARTMENT OF ATOMIC ENERGY

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

रेडियोसक्रियता परीक्षण प्रमाण-पत्र / RADIOACTIVITY TEST CERTIFICATE

PAGE 1 OF 1

RADIOANALYTICAL LABORATORY

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

NOV 24, 2020

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

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

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

SR NO	SAMPLE DETAILS	U-238 (Bq/Kg)	Th-232 (Bq/Kg)	Ra-226 (Bq/Kg)	K-40 (Bq/Kg)	Cs-137 (Bq/Kg)
1	COAL	85.6 ± 9.3	129.3 ± 14.6	94 ± 9.9	289 ± 14.2	0.4 ± 0.6
2	FLY ASH	78.4 ± 8.8	116.4 ± 16.3	69.1 ± 8.4	225.6 ± 13.2	0.2 ± 0.4
3	BOTTOM ASH	28.8 ± 6.4	61 ± 8.1	7.1 ± 2.7	96.6 ± 7.6	1.1 ± 1.1

Date of receipt of sample : 24.10.2020

Date of completion of test : 17.11.2020

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

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

checked by:

Authorized Signatory

24-11-20

अजय एन. ठामके / Ajay N. Thamke

वैज्ञानिक अधिकारी / Scientific Officer

रेडियोसक्रियता परीक्षण प्रयोगशाला / Radioanalytical Laboratory

विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

Board of Radiation & Isotope Technology

सेक्टर-20/ Sector 20 वाशी, मुंबई / Vashi Complex

नवी मुंबई / Navi Mumbai-400 703

End of Report