PPGCL
PRAYAGRAJ POWER GENERATION COMPANY LTD.

Ref: PPGCL/ENV/FY27/602 **Date: 18.05.2026**

To,

Shri V. K. Singh, IFS

Addl. Principal Chief Consenator of Forests (C),

Ministry of Environment, Forest and Climate Change

Regional Office (CZ),

Kendriya Bhawan, 5th Floor Sector "H", Aliganj

Lucknow – 226020

Subject: Half yearly report for the period October'25 to March'26 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 herewith the half yearly report for the period October'25 to March'26 on compliance of the stipulated conditions 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

Vipulkumar Raval

Chief - O&M Services

Enclosure: Environment Clearance compliance with Annexure 1 to 13.

Cc: i) Incharge,
CPCB, Zonal Office (North), Lucknow
ii) Member Secretary,
UPPCB, Lucknow
iii) Regional Officer
UPPCB, Prayagraj

SIX MONTHLY COMPLIANCE STATUS

OF

CONDITIONS STIPULATED IN

ENVIRONMENTAL CLEARANCE (EC)

OF

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

FOR THE PERIOD OCTOBER - 2025 TO MARCH- 2026

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 - IA.II (T) 08.09.2009 & Extension of validity letter No J-13011/60/2008 - IA.II (T) dated 23.03.2015 and subsequent Amendment dated 08.02.2024.

S.No	Stipulated Conditions	Compliance Status
(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 from Oct-2025 to Mar-2026 is 30.81% and Sulphur content is within 0.43%.
(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, NO_x, and particulate matter. Average exit velocity of flue gas from Unit I, II and III stack for the period from Oct-2025 to Mar-2026 is 22.6 m/s, 22.8 m/s and 22.9 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 is 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. Also, the roads have been made pucca. Photographs are attached as **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 4th 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 28th 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.
(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.	Being Complied. 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: 27.04.2015. 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.
(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 maintained, and six monthly reports shall be	Being complied with. The ground water monitoring report is attached as **Annexure 4.** The parameters are within standards.

	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.	
(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.4,24,419 nos. of sapling till Mar-2026. Saplings will be planted during coming monsoon. Suitable local native species of sapling have been planted such as Neem, Seesham, Karanj, Pipal, Bargad, Kadam, Alstonia, Gulmohar, Bamboo, Ashoka. Other species include Imli, Amla, Mango, Guava, Bougenvillia, Champa and 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 equipment's 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/earmuffs etc. have been provided. Noise monitoring report is attached as **Annexure- 6.**
(xx)	Regular monitoring of ground level concentration of SO2, NOx, 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 25-26, an amount of Rs.7.03 crore on CSR activities in FY 2025–26, focusing on education, healthcare, skill development, environmental sustainability, and social inclusion in line with the Companies Act, 2013.Initiatives were mainly carried out in five adopted villages—Khansemra, Bemra, Jorwat, Berui, and

<table>
<tr><td></td><td></td><td>Kapari—and nearby areas. Key efforts included supporting education (DAV Sardar Patel Public School), youth skilling programs with TPSDI, promoting women entrepreneurship through the "Anokha Dhaaga" centre, and improving farmer livelihoods through agriculture and dairy initiatives. PPGCL also operated a Health Care & Wellness Centre, provided safe drinking water via RO plants and borewells, and undertook environmental activities like plantation, and running a fly ash bricks plant utilization. Community development was strengthened through collaboration with Tata Power Community Development Trust.
We have received EC amendment on 8th Feb 2024 and is sought for CSR expenditure condition in line with section 135 of companies Act 2013 which states that company shall spend at least two percent of the average net profits of the company made during the three immediately preceding financial years. Details of CSR activities is attached as Annexure-8 along with Amendment EC.

CSR Expenditure FY 25-26
<table><tr><th>Sl No</th><th>Thrust Area/Programs</th><th>Amount (Rs Lakh)</th></tr><tr><td>1</td><td>Education</td><td>285.35</td></tr><tr><td>2</td><td>Employability & Employment</td><td>2.53</td></tr><tr><td>3</td><td>Entrepreneurship</td><td>83.37</td></tr><tr><td>4</td><td>Essential Enablers</td><td>160.41</td></tr><tr><td>5</td><td>Others (Admin Exp.)</td><td>31.34</td></tr><tr><td>6</td><td>Transfer to TPCDT</td><td>140.00</td></tr><tr><td></td><td>Total (Rs Lakh)</td><td>703.00</td></tr></table></td></tr>
<tr><td>(xxiii)</td><td>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.</td><td>Complied.</td></tr>
<tr><td>(xxiv)</td><td>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</td><td>Complied.
Advertisement was published in the Hindustan Times, The Times of India (English) Daily and Dainik Jagran and Amar Ujala (Hindi Daily) on 7th Oct. 2009 immediately after receipt of EC.</td></tr>
</table>

(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 SO2, NOx (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 24.11.2025. Data of stack and ambient air is displayed at main gate of the company. Please refer **Annexure – 9.**
(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 24.11.2025.
(xxix)	The environment statement for each financial year ending 31st 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 2024-2025 was submitted on 08.09.2025. Please refer **Annexure – 10.**
(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 at the main gate of the plant.

(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 25-26 is attached as **Annexure – 11.**
(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) dated 23.03.2015 is as under:

S.No.	Stipulated Conditions	Compliance Status
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 capacity of 265 kW roof top solar power at School & Hospital roof and roof top solar heater at guest houses. Solar based street and garden lights have also been installed in Plant Township.
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 there of 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 for Coal, Bottom Ash, and Fly Ash. Analysis report of Fly ash and Bottom 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 installation. **Current FGD Status (Up to Mar-2026): -** Installation of FGD is under progress. Till date 90% work has been completed.
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	MoEF&CC vide OM dated 28th August 2019 has permitted use of fly ash in abandoned mines / low lying areas / soil conditioner in agriculture.

	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.	
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 39,044 saplings in the Financial Year 2025-26. Suitable local native species of sapling have been planted such as Neem, Seesham, Karanj, Pipal, Bargad, Kadam, Alstonia, Gulmohar, Bamboo, Ashoka. Other species include Imli, Amla, Mango, Guava, Bougenvillia, Champa and 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	Stipulated Conditions	Compliance Status

(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.

Status of Compliance Additional conditions stipulated vide File No.: J-13011/60/2008-IA. II(T) dtd 08.02.2024 is as under:

S.No	Stipulated Conditions	Compliance Status
1.1	Periodic epidemiological study shall be conducted (Once in a year) within 5 km range of the power plant through reputed expert government/private institution (empanelled by the State Government/Central Government for the purpose) and observations /recommendations of the study shall be submitted to IRO in 6 monthly compliance report along with action plan for implementation of the recommendations.	We have awarded the work order of periodic epidemiological study. The study report is attached as **Annexure-13.**
1.2	PP is required to submit the application for Transfer of EC dated 08th September 2009, in terms of the provisions of EIA Notification 2006 & as amendment and Ministry's OM dated 03rd November 2023, in the prescribed format through PARIVESH	Agreed
1.3	All other conditions of the Environmental Clearance letter dated 8th September 2009 for the project 3 x 660 MW Thermal Power Project located at Bara, Prayagraj in favour of M/s Prayagraj Power Generation Company Limited shall remain unchanged.	Agreed

Annexure-1

Interstellar Testing Centre Pvt. Ltd.

(A Group Company of Qualitek Labs Limited)

Plot No. 86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)

0172-2561543 customersupport@itclabs.com www.itclabs.com

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ilac-MRA

TC - 14896

TEST REPORT

ORIGINAL

Report No. : TR01EN-2511200653

ULR No. : TC1489625000027123F

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2510180883	Received On	: 18/10/2025
Sample Name#	: Stack Unit-1	Commenced On	: 18/10/2025
Sample Condition	: Good	Completed On	: 24/10/2025
Sample Details (if any)		Date of Report	: 20/11/2025
Sample Quantity#	: 1 Thimble, 30ml, 25ml		
Packaging Mode#	: Packed in vials		
Batch No./QR Code#	: Date of Sampling: 09.10.2025	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Ramesh Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 09.10.2025		
Test Report as per#	: EPA-1986, PCLS/02/2021		

S. No. Sampling Information:

(a)	Name of the emission source monitored	: Stack Emission of Unit-1
(b)	Rated Capacity	: 660 MW
(c)	Capacity on sampling day	: 480 MW
(d)	Type of fuel used & its consumption	: Coal & 319 Ton/hr
(e)	Normal operating schedule	: 24 hrs
(f)	Stack Identification	: Stack attached to Unit-1 (660 MW) At 80 meter height
(g)	Type of Stack/Duct	: Metal
(h)	Stack Height from Ground Level , m	: 275
(i)	Diameter of the Stack , cm	: 740
(j)	Sampling Duration , minutes	: 17
(k)	Purpose of Monitoring	: To assess the Pollution load
(l)	Air Pollution control measure	: ESPs
(m)	Status	: Working
(n)	Recovery of Material	: -
(o)	Fugitive Emissionif any	: Nil
(p)	Date of Monitoring	: 09-10-2025
(q)	Time of Monitoring	: 15:38 to 15:55 hrs
	Observations:	
(r)	Flue Gas Temperature , °C Avg.	: 112
(s)	Flue Gas Velocity , m/s Avg.	: 22.21
(t)	Volumetric Flow Rate , Nm3/hr.	: 2625350.92
(u)	Ambient Air Temperature , °C	: 32

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 20/11/2025

Disclaimer :

- The report is only for the sample tested. • The test report shall not be reproduced except in full without the written approval of the laboratory. • If samples not consumed during analysis, it will be stored and retain as per company policy. • Samples not drawn by us unless otherwise stated.
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(A Group Company of Qualitek Labs Limited)
Plot No. 86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)
0172-2561543 customersupport@itclabs.com www.itclabs.com

TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2511200653**
NABL ULR No. : **TC148962500002712 3F**

(u) Ambient Air Temperature , °C : 32
(v) Barometric Pressure , mmHg : 750

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**General Parameters**				
1	Carbon Monoxide(CO)	% v/v	IS:13270	0.2	Max. 1.0
2	Mercury(as Hg)	mg/Nm3	USEPA Method	BLQ(LOQ:0.01)	Max. 0.03
3	Particulate Matter(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-1)	28	Max. 50
4	Carbon Dioxide (CO2)	%	IS:13270	12.2	Not Specified
5	Sulphur Dioxide(SO2)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-2)	646	Not Applicable
6	Moisture	% by mass	IS: 11255 (P-3)	1.142	Not Specified
7	Oxygen (O2)	% v/v	IS:13270	10.6	Not Specified
8	Oxides of Nitrogen (NOx)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-7)	310	Max. 450

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Requirement as per EPA-1986, PCLS/02/2021. Sampling Procedure: SOP/ITC/EW/056. Sample Collected by lab rep. on 09-10-2025.

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 20/11/2025

Disclaimer :

- The report is only for the sample tested. • The test report shall not be reproduced except in full without the written approval of the laboratory. • If samples not consumed during analysis, it will be stored and retain as per company policy. • Samples not drawn by us unless otherwise stated.
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0172-2561543 customersupport@itclabs.com www.itclabs.com

TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2511200655**
NABL ULR No. : **TC1489625000027125F**

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2510180884	Received On	: 18/10/2025
Sample Name#	: Stack Unit-2	Commenced On	: 18/10/2025
Sample Condition	: Good	Completed On	: 24/10/2025
Sample Details (if any)		Date of Report	: 20/11/2025
Sample Quantity#	: 1 Thimble, 30ml, 25ml		
Packaging Mode#	: Packed in vials		
Batch No./QR Code#	: Date of Sampling: 10.10.2025	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Ramesh Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 10.10.2025		
Test Report as per#	: EPA-1986, PCLS/02/2021		

S. No.	Sampling Information:	
(a)	Name of the emission source monitored	: Stack Emission of Unit-2
(b)	Rated Capacity	: 660 MW
(c)	Capacity on sampling day	: 366 MW
(d)	Type of fuel used & its consumption	: Coal & 215 ton/hr
(e)	Normal operating schedule	: 24 hrs
(f)	Stack Identification	: Stack attached to Unit-2 (660 MW) At 80 meter height
(g)	Type of Stack/Duct	: Metal
(h)	Stack Height from Ground Level , m	: 275
(i)	Diameter of the Stack , cm	: 740
(j)	Sampling Duration , minutes	: 19
(k)	Purpose of Monitoring	: To assess the pollution load
(l)	Air Pollution control measure	: ESPs
(m)	Status	: Working
(n)	Recovery of Material	: -
(o)	Fugitive Emissionif any	: Nil
(p)	Date of Monitoring	: 10-10-2025
(q)	Time of Monitoring	: 10:11 to 10:30 hrs
	Observations:	
(r)	Flue Gas Temperature , °C Avg.	: 113
(s)	Flue Gas Velocity , m/s Avg.	: 23.33
(t)	Volumetric Flow Rate , Nm3/hr.	: 2750597.01

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 20/11/2025

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0172-2561543 customersupport@itclabs.com www.itclabs.com

TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2511200655**
NABL ULR No. : **TC1489625000027125F**

(u)	Ambient Air Temperature , °C	: 31
(v)	Barometric Pressure , mmHg	: 750

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**General Parameters**				
1	Carbon Monoxide(CO)	% v/v	IS:13270	0.2	Max. 1.0
2	Mercury(as Hg)	mg/Nm3	USEPA Method	BLQ(LOQ:0.01)	Max. 0.03
3	Particulate Matter(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-1)	32	Max. 50
4	Carbon Dioxide (CO2)	%	IS:13270	10.2	Not Specified
5	Sulphur Dioxide(SO2)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-2)	726	Not Applicable
6	Moisture	% by mass	IS: 11255 (P-3)	1.518	Not Specified
7	Oxygen (O2)	% v/v	IS:13270	8.8	Not Specified
8	Oxides of Nitrogen (NOx)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-7)	258	Max. 450

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Requirement as per EPA-1986, PCLS/02/2021. Sampling Procedure: SOP/ITC/EW/056. Sample Collected by lab rep. on 10-10-2025.

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 20/11/2025

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2511200657**
NABL ULR No. : **TC1489625000027127F**

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2510180885	Received On	: 18/10/2025
Sample Name#	: Stack Unit-3	Commenced On	: 18/10/2025
Sample Condition	: Good	Completed On	: 25/10/2025
Sample Details (if any)		Date of Report	: 20/11/2025
Sample Quantity#	: 1 Thimble, 30ml, 25ml		
Packaging Mode#	: Packed in vials		
Batch No./QR Code#	: Date of Sampling: 10.10.2025	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Ramesh Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 10.10.2025		
Test Report as per#	: EPA-1986, PCLS/02/2021		

S. No.	Sampling Information:	
(a)	Name of the emission source monitored	: Stack Emission of Unit-3
(b)	Rated Capacity	: 660 MW
(c)	Capacity on sampling day	: 297 MW
(d)	Type of fuel used & its consumption	: Coal & 235 ton/hr
(e)	Normal operating schedule	: 24 hrs
(f)	Stack Identification	: Stack attached to Unit-3 (660 MW) At 80 meter height
(g)	Type of Stack/Duct	: Metal
(h)	Stack Height from Ground Level , m	: 275
(i)	Diameter of the Stack , cm	: 740
(j)	Sampling Duration , minutes	: 17
(k)	Purpose of Monitoring	: To assess the Pollution load
(l)	Air Pollution control measure	: ESPs
(m)	Status	: Working
(n)	Recovery of Material	: -
(o)	Fugitive Emissionif any	: Nil
(p)	Date of Monitoring	: 10-10-2025
(q)	Time of Monitoring	: 11:44 to 12:01 hrs
	Observations:	
(r)	Flue Gas Temperature , °C Avg.	: 112
(s)	Flue Gas Velocity , m/s Avg.	: 22.88
(t)	Volumetric Flow Rate , Nm3/hr.	: 2704548.80

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 20/11/2025

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2511200657**
NABL ULR No. : **TC1489625000027127F**

(u)	Ambient Air Temperature , °C	: 31
(v)	Barometric Pressure , mmHg	: 750

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**General Parameters**				
1	Carbon Monoxide(CO)	% v/v	IS:13270	0.2	Max. 1.0
2	Mercury(as Hg)	mg/Nm3	USEPA Method	BLQ(LOQ:0.01)	Max. 0.03
3	Particulate Matter(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-1)	29	Max. 30
4	Carbon Dioxide (CO2)	%	IS:13270	12.2	Not Specified
5	Sulphur Dioxide(SO2)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-2)	793	Not Applicable
6	Moisture	% by mass	IS: 11255 (P-3)	1.442	Not Specified
7	Oxygen (O2)	% v/v	IS:13270	8.6	Not Specified
8	Oxides of Nitrogen (NOx)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-7)	378	Max. 100

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Requirement as per EPA-1986, PCLS/02/2021. Sampling Procedure: SOP/ITC/EW/056. Sample Collected by lab rep. on 10-10-2025.

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 20/11/2025

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2512160355**
NABL ULR No. : **TC1489625000029360F**

Issued To :

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POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2511150506	Received On	: 15/11/2025
Sample Name#	: Stack Unit-1	Commenced On	: 15/11/2025
Sample Condition	: Good	Completed On	: 21/11/2025
Sample Details (if any)		Date of Report	: 16/12/2025
Sample Quantity#	: 1 Thimble, 30ml, 25ml		
Packaging Mode#	: Packed in vials		
Batch No./QR Code#	: Date of Sampling: 11.11.2025	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Ramesh Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 11.11.2025		
Test Report as per#	: EPA-1986, PCLS/02/2021		

S. No.	Sampling Information:	
(a)	Name of the emission source monitored	: Stack Emission of Unit
(b)	Rated Capacity	: 660 MW
(c)	Capacity on sampling day	: 394 MW
(d)	Type of fuel used & its consumption	: Coal & 234 ton /hr
(e)	Normal operating schedule	: 24 hrs
(f)	Stack Identification	: Stack attached to Unit-1 (660 MW) At 80 meter height
(g)	Type of Stack/Duct	: Metal
(h)	Stack Height from Ground Level , m	: 275
(i)	Diameter of the Stack , cm	: 740
(j)	Sampling Duration , minutes	: 22
(k)	Purpose of Monitoring	: To assess the pollution load
(l)	Air Pollution control measure	: ESPs
(m)	Status	: Working
(n)	Recovery of Material	: -
(o)	Fugitive Emissionif any	: Nil
(p)	Date of Monitoring	: 11-11-2025
(q)	Time of Monitoring	: 14:50 to 15:12 hrs
	Observations:	
(r)	Flue Gas Temperature , °C Avg.	: 108
(s)	Flue Gas Velocity , m/s Avg.	: 22.58
(t)	Volumetric Flow Rate , Nm3/hr.	: 2697108.97

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 16/12/2025

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2512160355**
NABL ULR No. : **TC1489625000029360F**

(u) Ambient Air Temperature , °C : 28
(v) Barometric Pressure , mmHg : 750

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**General Parameters**				
1	Carbon Monoxide(CO)	% v/v	IS:13270	0.2	Max. 1.0
2	Mercury(as Hg)	mg/Nm3	USEPA Method	BLQ(LOQ:0.01)	Max. 0.03
3	Particulate Matter(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-1)	25	Max. 50
4	Carbon Dioxide (CO2)	%	IS:13270	8.8	Not Specified
5	Sulphur Dioxide(SO2)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-2)	683	Not Applicable
6	Moisture	% by mass	IS: 11255 (P-3)	0.866	Not Specified
7	Oxygen (O2)	% v/v	IS:13270	6.2	Not Specified
8	Oxides of Nitrogen (NOx)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-7)	357	Max. 450

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Requirement as per EPA-1986, PCLS/02/2021. Sampling Procedure: SOP/ITC/EW/056. Sample Collected by lab rep. on 11-11-2025.

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 16/12/2025

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TEST REPORT

Test Report No. : **TR01EN-2512160354**
NABL ULR No. : **TC1489625000029359F**

Issued To :

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POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2511150507		
Sample Name#	: Stack Unit-2	Received On	: 15/11/2025
Sample Condition	: Good	Commenced On	: 15/11/2025
Sample Details (if any)		Completed On	: 21/11/2025
Sample Quantity#	: 1 Thimble, 30ml, 25ml	Date of Report	: 16/12/2025
Packaging Mode#	: Packed in vials		
Batch No./QR Code#	: Date of Sampling: 11.11.2025		
Date of Manufacture#	: NA	Grade#	: NA
Sample Submission Type	: Sampled by Lab Rep /Ramesh Kumar Nishad	Date of Expiry#	: NA
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 11.11.2025		
Test Report as per#	: EPA-1986, PCLS/02/2021		

S. No.	**Sampling Information**:	
(a)	Name of the emission source monitored	: Stack Emission of Unit
(b)	Rated Capacity	: 660 MW
(c)	Capacity on sampling day	: 498 MW
(d)	Type of fuel used & its consumption	: Coal & 273 ton/hr
(e)	Normal operating schedule	: 24 hrs
(f)	Stack Identification	: Stack attached to Unit-2 (660 MW) At 80 meter height
(g)	Type of Stack/Duct	: Metal
(h)	Stack Height from Ground Level , m	: 275
(i)	Diameter of the Stack , cm	: 740
(j)	Sampling Duration , minutes	: 24
(k)	Purpose of Monitoring	: To assess the pollution of load
(l)	Air Pollution control measure	: ESPs
(m)	Status	: Working
(n)	Recovery of Material	: -
(o)	Fugitive Emissionif any	: Nil
(p)	Date of Monitoring	: 11-11-2025
(q)	Time of Monitoring	: 15:30 to 15:54 hrs
	Observations:	
(r)	Flue Gas Temperature , °C Avg.	: 117
(s)	Flue Gas Velocity , m/s Avg.	: 23.27
(t)	Volumetric Flow Rate , Nm3/hr.	: 2715384.34

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 16/12/2025

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2512160354**
NABL ULR No. : **TC1489625000029359F**

(u) Ambient Air Temperature , °C : 27
(v) Barometric Pressure , mmHg : 750

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**General Parameters**				
1	Carbon Monoxide(CO)	% v/v	IS:13270	0.2	Max. 1.0
2	Mercury(as Hg)	mg/Nm3	USEPA Method	BLQ(LOQ:0.01)	Max. 0.03
3	Particulate Matter(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-1)	34	Max. 50
4	Carbon Dioxide (CO2)	%	IS:13270	10.8	Not Specified
5	Sulphur Dioxide(SO2)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-2)	729	Not Applicable
6	Moisture	% by mass	IS: 11255 (P-3)	0.686	Not Specified
7	Oxygen (O2)	% v/v	IS:13270	4.4	Not Specified
8	Oxides of Nitrogen (NOx)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-7)	307	Max. 450

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Requirement as per EPA-1986, PCLS/02/2021. Sampling Procedure: SOP/ITC/EW/056. Sample Collected by lab rep. on 11-11-2025.

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 16/12/2025

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TEST REPORT

Test Report No. : **TR01EN-2512160353**

NABL ULR No. : **TC1489625000029358F**

Issued To :

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POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2511170545	Received On	: 17/11/2025
Sample Name#	: Stack Unit-3	Commenced On	: 17/11/2025
Sample Condition	: Good	Completed On	: 21/11/2025
Sample Details (if any)		Date of Report	: 16/12/2025
Sample Quantity#	: 1 Thimble, 30ml, 25ml		
Packaging Mode#	: Packed in vials		
Batch No./QR Code#	: Date of Sampling: 11.11.2025	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Ramesh Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 11.11.2025		
Test Report as per#	: EPA-1986, PCLS/02/2021		

S. No.	**Sampling Information**:	
(a)	Name of the emission source monitored	: Stack Emission of Unit
(b)	Rated Capacity	: 660 MW
(c)	Capacity on sampling day	: 519 MW
(d)	Type of fuel used & its consumption	: Coal & 309 ton/hr
(e)	Normal operating schedule	: 24 hrs
(f)	Stack Identification	: Stack attached to Unit-3 (660 MW) At 80 meter height
(g)	Type of Stack/Duct	: Metal
(h)	Stack Height from Ground Level , m	: 275
(i)	Diameter of the Stack , cm	: 740
(j)	Sampling Duration , minutes	: 24
(k)	Purpose of Monitoring	: To assess The Pollution load
(l)	Air Pollution control measure	: ESPs
(m)	Status	: Working
(n)	Recovery of Material	: -
(o)	Fugitive Emissionif any	: Nil
(p)	Date of Monitoring	: 11-11-2025
(q)	Time of Monitoring	: 11:20 to 11:44 hrs
	Observations:	
(r)	Flue Gas Temperature , °C Avg.	: 117
(s)	Flue Gas Velocity , m/s Avg.	: 23.19
(t)	Volumetric Flow Rate , Nm3/hr.	: 2706049.11

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 16/12/2025

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TEST REPORT

Test Report No. : **TR01EN-2512160353**
NABL ULR No. : **TC1489625000029358F**

(u) Ambient Air Temperature , °C : 29
(v) Barometric Pressure , mmHg : 750

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**General Parameters**				
1	Carbon Monoxide(CO)	% v/v	IS:13270	0.2	Max. 1.0
2	Mercury(as Hg)	mg/Nm3	USEPA Method	BLQ(LOQ:0.01)	Max. 0.03
3	Particulate Matter(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-1)	27	Max. 30
4	Carbon Dioxide (CO2)	%	IS:13270	12.8	Not Specified
5	Sulphur Dioxide(SO2)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-2)	781	Not Applicable
6	Moisture	% by mass	IS: 11255 (P-3)	0.686	Not Specified
7	Oxygen (O2)	% v/v	IS:13270	4.4	Not Specified
8	Oxides of Nitrogen (NOx)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-7)	390	Max. 100

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Requirement as per EPA-1986, PCLS/02/2021. Sampling Procedure: SOP/ITC/EW/056. Sample Collected by lab rep. on 11-11-2025.

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 16/12/2025

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0172-2561543 customersupport@itclabs.com www.itclabs.com

ilac-MRA
TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2601120430**
NABL ULR No. : **TC1489626000001302F**

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2512311505		
Sample Name#	: Stack Unit-1	Received On	: 31/12/2025
Sample Condition	: Good	Commenced On	: 31/12/2025
Sample Details (if any)		Completed On	: 09/01/2026
Sample Quantity#	: 1 Thimble, 30ml, 25ml	Date of Report	: 12/01/2026
Packaging Mode#	: Packed in vials		
Batch No./QR Code#	: Date of Sampling: 27.12.2025	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Rahul Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Sample Collected by lab rep. on: 27.12.2025		
Test Report as per#	: EPA-1986, PCLS/02/2021		

S. No.	**Sampling Information**:	
(a)	Name of the emission source monitored	: Stack Emission of Unit-1
(b)	Rated Capacity	: 660 MW
(c)	Capacity on sampling day	: 596 MW
(d)	Type of fuel used & its consumption	: Coal & 318 Ton/hr
(e)	Normal operating schedule	: 24 hrs
(f)	Stack Identification	: Stack attached to Unit-1 (660 MW) At 80 meter height
(g)	Type of Stack/Duct	: Metal
(h)	Stack Height from Ground Level , m	: 275
(i)	Diameter of the Stack , cm	: 740
(j)	Sampling Duration , minutes	: 43
(k)	Purpose of Monitoring	: To assess the pollution load
(l)	Air Pollution control measure	: ESPs
(m)	Status	: Working
(n)	Recovery of Material	: -
(o)	Fugitive Emissionif any	: Nil
(p)	Date of Monitoring	: 27-12-2025
(q)	Time of Monitoring	: 11:34 to 12:17 hrs
	Observations:	
(r)	Flue Gas Temperature , °C Avg.	: 112
(s)	Flue Gas Velocity , m/s Avg.	: 22.92
(t)	Volumetric Flow Rate , Nm3/hr.	: 2709277.04

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 12/01/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2601120430**
NABL ULR No. : **TC1489626000001302F**

(u)	Ambient Air Temperature , °C	: 16
(v)	Barometric Pressure , mmHg	: 750

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**General Parameters**				
1	Carbon Monoxide(CO)	% v/v	IS:13270	0.2	Max. 1.0
2	Mercury(as Hg)	mg/Nm3	USEPA Method	BLQ(LOQ:0.01)	Max. 0.03
3	Particulate Matter(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-1)	32	Max. 50
4	Carbon Dioxide (CO2)	%	IS:13270	10.2	Not Specified
5	Sulphur Dioxide(SO2)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-2)	796	Not Applicable
6	Moisture	% by mass	IS: 11255 (P-3)	2.104	Not Specified
7	Oxygen (O2)	% v/v	IS:13270	8.4	Not Specified
8	Oxides of Nitrogen (NOx)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-7)	346	Max. 450

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Requirement as per EPA-1986, PCLS/02/2021. Sampling Procedure: SOP/ITC/EW/056. Sample Collected by lab rep. on 27-12-2025.

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 12/01/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2601120427**
NABL ULR No. : **TC1489626000001288F**

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2512311507		
Sample Name#	: Stack Unit-3	Received On	: 31/12/2025
Sample Condition	: Good	Commenced On	: 31/12/2025
Sample Details (if any)		Completed On	: 09/01/2026
Sample Quantity#	: 1 Thimble, 30ml, 25ml	Date of Report	: 12/01/2026
Packaging Mode#	: Packed in vials		
Batch No./QR Code#	: Date of Sampling: 27.12.2025		
Date of Manufacture#	: NA	Grade#	: NA
Sample Submission Type	: Sampled by Lab Rep /Rahul Kumar Nishad	Date of Expiry#	: NA
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Sample Collected by lab rep. on: 27.12.2025		
Test Report as per#	: EPA-1986, PCLS/02/2021		

S. No. Sampling Information:

(a)	Name of the emission source monitored	: Stack Emission of Unit-3
(b)	Rated Capacity	: 660 MW
(c)	Capacity on sampling day	: 501 MW
(d)	Type of fuel used & its consumption	: Coal & 289 Ton/hr
(e)	Normal operating schedule	: 24 hrs
(f)	Stack Identification	: Stack attached to Unit-3 (660 MW) At 80 meter height
(g)	Type of Stack/Duct	: Metal
(h)	Stack Height from Ground Level , m	: 275
(i)	Diameter of the Stack , cm	: 740
(j)	Sampling Duration , minutes	: 41
(k)	Purpose of Monitoring	: To assess the pollution load
(l)	Air Pollution control measure	: ESPs
(m)	Status	: Working
(n)	Recovery of Material	: -
(o)	Fugitive Emissionif any	: Nil
(p)	Date of Monitoring	: 27-12-2025
(q)	Time of Monitoring	: 15:24 to 16:05 hrs
	Observations:	
(r)	Flue Gas Temperature , °C Avg.	: 104
(s)	Flue Gas Velocity , m/s Avg.	: 23.15
(t)	Volumetric Flow Rate , Nm3/hr.	: 2794532.58

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 12/01/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2601120427**
NABL ULR No. : **TC1489626000001288F**

(u)	Ambient Air Temperature , °C	: 20
(v)	Barometric Pressure , mmHg	: 750

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**General Parameters**				
1	Carbon Monoxide(CO)	% v/v	IS:13270	0.2	Max. 1.0
2	Mercury(as Hg)	mg/Nm3	USEPA Method	BLQ(LOQ:0.01)	Max. 0.03
3	Particulate Matter(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-1)	28	Max. 30
4	Carbon Dioxide (CO2)	%	IS:13270	10.2	Not Specified
5	Sulphur Dioxide(SO2)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-2)	811	Not Applicable
6	Moisture	% by mass	IS: 11255 (P-3)	2.110	Not Specified
7	Oxygen (O2)	% v/v	IS:13270	6.2	Not Specified
8	Oxides of Nitrogen (NOx)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-7)	390	Max. 100

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Requirement as per EPA-1986, PCLS/02/2021. Sampling Procedure: SOP/ITC/EW/056. Sample Collected by lab rep. on 27-12-2025.

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 12/01/2026

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TEST REPORT

Test Report No. : **TR01EN-2601120429**

NABL ULR No. : **TC1489626000001301F**

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2512311506	Received On	: 31/12/2025
Sample Name#	: Stack Unit-2	Commenced On	: 31/12/2025
Sample Condition	: Good	Completed On	: 09/01/2026
Sample Details (if any)		Date of Report	: 12/01/2026
Sample Quantity#	: 1 Thimble, 30ml, 25ml		
Packaging Mode#	: Packed in vials		
Batch No./QR Code#	: Date of Sampling: 27.12.2025	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Rahul Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Sample Collected by lab rep. on: 27.12.2025		
Test Report as per#	: EPA-1986, PCLS/02/2021		

S. No.	Sampling Information:	
(a)	Name of the emission source monitored	: Stack Emission of Unit-2
(b)	Rated Capacity	: 660 MW
(c)	Capacity on sampling day	: 418 MW
(d)	Type of fuel used & its consumption	: Coal & 228 Ton/hr
(e)	Normal operating schedule	: 24 hrs
(f)	Stack Identification	: Stack attached to Unit-2 (660 MW) At 80 meter height
(g)	Type of Stack/Duct	: Metal
(h)	Stack Height from Ground Level , m	: 275
(i)	Diameter of the Stack , cm	: 740
(j)	Sampling Duration , minutes	: 41
(k)	Purpose of Monitoring	: To assess the pollution load
(l)	Air Pollution control measure	: ESPs
(m)	Status	: Working
(n)	Recovery of Material	: -
(o)	Fugitive Emissionif any	: Nil
(p)	Date of Monitoring	: 27-12-2025
(q)	Time of Monitoring	: 14:35 to 15:16 hrs
	Observations:	
(r)	Flue Gas Temperature , °C Avg.	: 105
(s)	Flue Gas Velocity , m/s Avg.	: 23.47
(t)	Volumetric Flow Rate , Nm3/hr.	: 2825665.97

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 12/01/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2601120429**
NABL ULR No. : **TC1489626000001301F**

(u) Ambient Air Temperature , °C : 21
(v) Barometric Pressure , mmHg : 750

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**General Parameters**				
1	Carbon Monoxide(CO)	% v/v	IS:13270	0.2	Max. 1.0
2	Mercury(as Hg)	mg/Nm3	USEPA Method	BLQ(LOQ:0.01)	Max. 0.03
3	Particulate Matter(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-1)	26	Max. 50
4	Carbon Dioxide (CO2)	%	IS:13270	10.2	Not Specified
5	Sulphur Dioxide(SO2)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-2)	817	Not Applicable
6	Moisture	% by mass	IS: 11255 (P-3)	2.172	Not Specified
7	Oxygen (O2)	% v/v	IS:13270	8.4	Not Specified
8	Oxides of Nitrogen (NOx)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-7)	292	Max. 450

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Requirement as per EPA-1986, PCLS/02/2021. Sampling Procedure: SOP/ITC/EW/056. Sample Collected by lab rep. on 27-12-2025.

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 12/01/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2602140298**

NABL ULR No. : **TC1489626000004425F**

Issued To :

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POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2601200637	Received On	: 20/01/2026
Sample Name#	: Stack Unit-1	Commenced On	: 20/01/2026
Sample Condition	: Good	Completed On	: 27/01/2026
Sample Details (if any)		Date of Report	: 14/02/2026
Sample Quantity#	: 1 Thimble, 30ml, 25ml		
Packaging Mode#	: Packed in vials		
Batch No./QR Code#	: Date of Sampling: 15.01.2026	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Rahul Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 15.01.2026		
Test Report as per#	: EPA-1986, PCLS/02/2021		

S. No.	Sampling Information:	
(a)	Name of the emission source monitored	: Stack Emission of Unit-1
(b)	Rated Capacity	: 660 MW
(c)	Capacity on sampling day	: 375 MW
(d)	Type of fuel used & its consumption	: Coal & 221 ton/hr
(e)	Normal operating schedule	: 24 hrs
(f)	Stack Identification	: Stack attached to Unit-1 (660 MW) At 80 meter height
(g)	Type of Stack/Duct	: Metal
(h)	Stack Height from Ground Level , m	: 275
(i)	Diameter of the Stack , cm	: 740
(j)	Sampling Duration , minutes	: 24
(k)	Purpose of Monitoring	: To assess the pollution load
(l)	Air Pollution control measure	: ESPs
(m)	Status	: Working
(n)	Recovery of Material	: -
(o)	Fugitive Emissionif any	: Nil
(p)	Date of Monitoring	: 15-01-2026
(q)	Time of Monitoring	: 16:45 to 17:09 hrs
	Observations:	
(r)	Flue Gas Temperature , °C Avg.	: 107
(s)	Flue Gas Velocity , m/s Avg.	: 22.64
(t)	Volumetric Flow Rate , Nm3/hr.	: 2686085.97

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 14/02/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2602140298**
NABL ULR No. : **TC148962600000442 5F**

(u)	Ambient Air Temperature , °C	: 22
(v)	Barometric Pressure , mmHg	: 743

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**General Parameters**				
1	Carbon Monoxide(CO)	% v/v	IS:13270	0.2	Max. 1.0
2	Mercury(as Hg)	mg/Nm3	USEPA Method	BLQ(LOQ:0.01)	Max. 0.03
3	Particulate Matter(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-1)	36	Max. 50
4	Carbon Dioxide (CO2)	%	IS:13270	11	Not Specified
5	Sulphur Dioxide(SO2)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-2)	756	Not Applicable
6	Moisture	% by mass	IS: 11255 (P-3)	2.946	Not Specified
7	Oxygen (O2)	% v/v	IS:13270	8.00	Not Specified
8	Oxides of Nitrogen (NOx)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-7)	348	Max. 450

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Requirement as per EPA-1986, PCLS/02/2021. Sampling Procedure: SOP/ITC/EW/056. Sample Collected by lab rep. on 15-01-2026.

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 14/02/2026

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TEST REPORT

Test Report No. : **TR01EN-2602140297**

NABL ULR No. : **TC1489626000004424F**

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2601200638	Received On	: 20/01/2026
Sample Name#	: Stack Unit-2	Commenced On	: 20/01/2026
Sample Condition	: Good	Completed On	: 27/01/2026
Sample Details (if any)		Date of Report	: 14/02/2026
Sample Quantity#	: 1 Thimble, 30ml, 25ml		
Packaging Mode#	: Packed in vials		
Batch No./QR Code#	: Date of Sampling: 16.01.2026	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Rahul Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 16.01.2026		
Test Report as per#	: EPA-1986, PCLS/02/2021		

S. No.	**Sampling Information**:	
(a)	Name of the emission source monitored	: Stack Emission of Unit-2
(b)	Rated Capacity	: 660 MW
(c)	Capacity on sampling day	: 403 MW
(d)	Type of fuel used & its consumption	: Coal & 217 ton/hr
(e)	Normal operating schedule	: 24 hrs
(f)	Stack Identification	: Stack attached to Unit-2 (660 MW) At 80 meter height
(g)	Type of Stack/Duct	: Metal
(h)	Stack Height from Ground Level , m	: 275
(i)	Diameter of the Stack , cm	: 740
(j)	Sampling Duration , minutes	: 24
(k)	Purpose of Monitoring	: To assess the pollution load
(l)	Air Pollution control measure	: ESPs
(m)	Status	: Working
(n)	Recovery of Material	: -
(o)	Fugitive Emissionif any	: Nil
(p)	Date of Monitoring	: 16-01-2026
(q)	Time of Monitoring	: 10:20 to 10:44 hrs
	Observations:	
(r)	Flue Gas Temperature , °C Avg.	: 108
(s)	Flue Gas Velocity , m/s Avg.	: 22.78
(t)	Volumetric Flow Rate , Nm3/hr.	: 2699230.35

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 14/02/2026

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(A Group Company of Qualitek Labs Limited)
Plot No. 86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)
0172-2561543 customersupport@itclabs.com www.itclabs.com

TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2602140297**
NABL ULR No. : **TC1489626000004424F**

(u) Ambient Air Temperature , °C : 19
(v) Barometric Pressure , mmHg : 744

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**General Parameters**				
1	Carbon Monoxide(CO)	% v/v	IS:13270	0.2	Max. 1.0
2	Mercury(as Hg)	mg/Nm3	USEPA Method	BLQ(LOQ:0.01)	Max. 0.03
3	Particulate Matter(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-1)	30	Max. 50
4	Carbon Dioxide (CO2)	%	IS:13270	11.6	Not Specified
5	Sulphur Dioxide(SO2)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-2)	786	Not Applicable
6	Moisture	% by mass	IS: 11255 (P-3)	2.781	Not Specified
7	Oxygen (O2)	% v/v	IS:13270	8.40	Not Specified
8	Oxides of Nitrogen (NOx)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-7)	326	Max. 450

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Requirement as per EPA-1986, PCLS/02/2021. Sampling Procedure: SOP/ITC/EW/056. Sample Collected by lab rep. on 16-01-2026.

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 14/02/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2602140296**

NABL ULR No. : **TC148962600000 4423F**

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2601200639	Received On	: 20/01/2026
Sample Name#	: Stack Unit-3	Commenced On	: 20/01/2026
Sample Condition	: Good	Completed On	: 27/01/2026
Sample Details (if any)		Date of Report	: 14/02/2026
Sample Quantity#	: 1 Thimble, 30ml, 25ml		
Packaging Mode#	: Packed in vials		
Batch No./QR Code#	: Date of Sampling: 16.01.2026	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Rahul Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 16.01.2026		
Test Report as per#	: EPA-1986, PCLS/02/2021		

S. No. Sampling Information:

(a)	Name of the emission source monitored	: Stack Emission of Unit-3
(b)	Rated Capacity	: 660 MW
(c)	Capacity on sampling day	: 405 MW
(d)	Type of fuel used & its consumption	: 236 ton/hr
(e)	Normal operating schedule	: 24 hrs
(f)	Stack Identification	: Stack attached to Unit-3 (660 MW) At 80 meter height
(g)	Type of Stack/Duct	: Metal
(h)	Stack Height from Ground Level , m	: 275
(i)	Diameter of the Stack , cm	: 740
(j)	Sampling Duration , minutes	: 24
(k)	Purpose of Monitoring	: To assess the pollution load
(l)	Air Pollution control measure	: ESPs
(m)	Status	: Working
(n)	Recovery of Material	: -
(o)	Fugitive Emissionif any	: Nil
(p)	Date of Monitoring	: 16-01-2026
(q)	Time of Monitoring	: 11:50 to 12:14 hrs
	Observations:	
(r)	Flue Gas Temperature , °C Avg.	: 105
(s)	Flue Gas Velocity , m/s Avg.	: 22.58
(t)	Volumetric Flow Rate , Nm3/hr.	: 2696766.48

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 14/02/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2602140296**

NABL ULR No. : **TC1489626000004423F**

(u)	Ambient Air Temperature , °C	: 22
(v)	Barometric Pressure , mmHg	: 744

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**General Parameters**				
1	Carbon Monoxide(CO)	% v/v	IS:13270	0.2	Max. 1.0
2	Mercury(as Hg)	mg/Nm3	USEPA Method	BLQ(LOQ:0.01)	Max. 0.03
3	Particulate Matter(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-1)	25	Max. 30
4	Carbon Dioxide (CO2)	%	IS:13270	10	Not Specified
5	Sulphur Dioxide(SO2)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-2)	788	Not Applicable
6	Moisture	% by mass	IS: 11255 (P-3)	2.943	Not Specified
7	Oxygen (O2)	% v/v	IS:13270	9.8	Not Specified
8	Oxides of Nitrogen (NOx)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-7)	380	Max. 100

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Requirement as per EPA-1986, PCLS/02/2021. Sampling Procedure: SOP/ITC/EW/056. Sample Collected by lab rep. on 16-01-2026.

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 14/02/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2603180750**

NABL ULR No. : **TC148962600000 8345F**

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2602271152	Received On	: 27/02/2026
Sample Name#	: Stack Unit-1	Commenced On	: 27/02/2026
Sample Condition	: Good	Completed On	: 07/03/2026
Sample Details (if any)		Date of Report	: 18/03/2026
Sample Quantity#	: 1 Thimble, 30ml, 25ml		
Packaging Mode#	: Packed in vials		
Batch No./QR Code#	: Date of Sampling: 25.02.2026	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Ramesh Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 25.02.2026		
Test Report as per#	: EPA-1986, PCLS/02/2021		

S. No. Sampling Information:

(a)	Name of the emission source monitored	: Stack Emission of Unit-1
(b)	Rated Capacity	: 660 MW
(c)	Capacity on sampling day	: 487 MW
(d)	Type of fuel used & its consumption	: Coal & 250 ton/hr
(e)	Normal operating schedule	: As Required
(f)	Stack Identification	: Stack attached to Unit-1 (660 MW) At 80 meter height
(g)	Type of Stack/Duct	: Metal
(h)	Stack Height from Ground Level , m	: 275
(i)	Diameter of the Stack , cm	: 740
(j)	Sampling Duration , minutes	: 29
(k)	Purpose of Monitoring	: To assess the Pollution Load
(l)	Air Pollution control measure	: ESPs
(m)	Status	: Working
(n)	Recovery of Material	: -
(o)	Fugitive Emissionif any	: Nil
(p)	Date of Monitoring	: 25-02-2026
(q)	Time of Monitoring	: 11:30 to 11:59 hrs
	Observations:	
(r)	Flue Gas Temperature , °C Avg.	: 117
(s)	Flue Gas Velocity , m/s Avg.	: 23.13
(t)	Volumetric Flow Rate , Nm3/hr.	: 2699047.69

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 18/03/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2603180750**

NABL ULR No. : **TC1489626000008345F**

(u) Ambient Air Temperature , °C : 30

(v) Barometric Pressure , mmHg : 750

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**General Parameters**				
1	Carbon Monoxide(CO)	% v/v	IS:13270	0.2	Max. 1.0
2	Mercury(as Hg)	mg/Nm3	USEPA Method	BLQ(LOQ:0.01)	Max. 0.03
3	Particulate Matter(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-1)	40	Max. 50
4	Carbon Dioxide (CO2)	%	IS:13270	12.4	Not Specified
5	Sulphur Dioxide(SO2)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-2)	698	Not Applicable
6	Moisture	% by mass	IS: 11255 (P-3)	1.182	Not Specified
7	Oxygen (O2)	% v/v	IS:13270	6.8	Not Specified
8	Oxides of Nitrogen (NOx)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-7)	328	Max. 450

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Requirements as per EPA-1986, PCLS/02/2021, Sampling Procedure - SOP/ITC/EW/056, Sample Collected by lab rep. on 25-02-2026.

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 18/03/2026

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ilac-MRA TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2603180749**

NABL ULR No. : **TC1489626000008344F**

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2602271153	Received On	: 27/02/2026
Sample Name#	: Stack Unit-2	Commenced On	: 27/02/2026
Sample Condition	: Good	Completed On	: 07/03/2026
Sample Details (if any)		Date of Report	: 18/03/2026
Sample Quantity#	: 1 Thimble, 30ml, 25ml		
Packaging Mode#	: Packed in vials		
Batch No./QR Code#	: Date of Sampling: 25.02.2026	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Ramesh Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 25.02.2026		
Test Report as per#	: EPA-1986, PCLS/02/2021		

S. No.	**Sampling Information**:	
(a)	Name of the emission source monitored	: Stack Emission of Unit-2
(b)	Rated Capacity	: 660 MW
(c)	Capacity on sampling day	: 501MW
(d)	Type of fuel used & its consumption	: Coal & 263 ton/hr
(e)	Normal operating schedule	: As Required
(f)	Stack Identification	: Stack attached to Unit-2 (660 MW) At 80 meter height
(g)	Type of Stack/Duct	: Metal
(h)	Stack Height from Ground Level , m	: 275
(i)	Diameter of the Stack , cm	: 740
(j)	Sampling Duration , minutes	: 29
(k)	Purpose of Monitoring	: To assess the Pollution Load
(l)	Air Pollution control measure	: ESPs
(m)	Status	: Working
(n)	Recovery of Material	: -
(o)	Fugitive Emissionif any	: Nil
(p)	Date of Monitoring	: 25-02-2026
(q)	Time of Monitoring	: 10:15 to 10:49 hrs
	Observations:	
(r)	Flue Gas Temperature , °C Avg.	: 116
(s)	Flue Gas Velocity , m/s Avg.	: 22.41
(t)	Volumetric Flow Rate , Nm3/hr.	: 2624753.08

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 18/03/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2603180749**

NABL ULR No. : **TC1489626000008344F**

(u)	Ambient Air Temperature , °C	: 30
(v)	Barometric Pressure , mmHg	: 750

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**General Parameters**				
1	Carbon Monoxide(CO)	% v/v	IS:13270	0.2	Max. 1.0
2	Mercury(as Hg)	mg/Nm3	USEPA Method	BLQ(LOQ:0.01)	Max. 0.03
3	Particulate Matter(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-1)	34	Max. 50
4	Carbon Dioxide (CO2)	%	IS:13270	10.2	Not Specified
5	Sulphur Dioxide(SO2)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-2)	672	Not Applicable
6	Moisture	% by mass	IS: 11255 (P-3)	1.302	Not Specified
7	Oxygen (O2)	% v/v	IS:13270	8.6	Not Specified
8	Oxides of Nitrogen (NOx)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-7)	356	Max. 450

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Requirements as per EPA-1986, PCLS/02/2021, Sampling Procedure - SOP/ITC/EW/056, Sample Collected by lab rep. on 25-02-2026.

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 18/03/2026

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ilac-MRA TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2603180748**

NABL ULR No. : **TC1489626000008343F**

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2603030054	Received On	: 03/03/2026
Sample Name#	: Stack Unit-3	Commenced On	: 03/03/2026
Sample Condition	: Good	Completed On	: 12/03/2026
Sample Details (if any)		Date of Report	: 18/03/2026
Sample Quantity#	: 1 Thimble, 30ml, 25ml		
Packaging Mode#	: Packed in vials		
Batch No./QR Code#	: Date of Sampling: 25.02.2026	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Ramesh Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 25.02.2026		
Test Report as per#	: EPA-1986, PCLS/02/2021		

S. No.	Sampling Information:	
(a)	Name of the emission source monitored	: Stack Emission of Unit-3
(b)	Rated Capacity	: 660 MW
(c)	Capacity on sampling day	: 422 MW
(d)	Type of fuel used & its consumption	: Coal & 228 ton/hr
(e)	Normal operating schedule	: As Required
(f)	Stack Identification	: Stack attached to Unit-3 (660 MW) At 80 meter height
(g)	Type of Stack/Duct	: Metal
(h)	Stack Height from Ground Level , m	: 275
(i)	Diameter of the Stack , cm	: 740
(j)	Sampling Duration , minutes	: 29
(k)	Purpose of Monitoring	: To assess the Pollution Load
(l)	Air Pollution control measure	: ESPs
(m)	Status	: Working
(n)	Recovery of Material	: -
(o)	Fugitive Emissionif any	: Nil
(p)	Date of Monitoring	: 25-02-2026
(q)	Time of Monitoring	: 15:15 to 15:44 hrs
	Observations:	
(r)	Flue Gas Temperature , °C Avg.	: 112
(s)	Flue Gas Velocity , m/s Avg.	: 22.82
(t)	Volumetric Flow Rate , Nm3/hr.	: 2697456.46

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 18/03/2026

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ilac-MRA TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2603180748**

NABL ULR No. : **TC1489626000008343F**

(u)	Ambient Air Temperature , °C	: 30
(v)	Barometric Pressure , mmHg	: 750

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**General Parameters**				
1	Carbon Monoxide(CO)	% v/v	IS:13270	0.2	Max. 1.0
2	Mercury(as Hg)	mg/Nm3	USEPA Method	BLQ(LOQ:0.01)	Max. 0.03
3	Particulate Matter(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-1)	27	Max. 30
4	Carbon Dioxide (CO2)	%	IS:13270	12.2	Not Specified
5	Sulphur Dioxide(SO2)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-2)	648	Not Applicable
6	Moisture	% by mass	IS: 11255 (P-3)	1.061	Not Specified
7	Oxygen (O2)	% v/v	IS:13270	6.6	Not Specified
8	Oxides of Nitrogen (NOx)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-7)	312	Max. 100

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Requirements as per EPA-1986, PCLS/02/2021, Sampling Procedure - SOP/ITC/EW/056, Sample Collected by lab rep. on 25-02-2026.

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 18/03/2026

Disclaimer :

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ilac-MRA TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2604140330**

NABL ULR No. : **TC1489626000010953F**

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2603261178	Received On	: 26/03/2026
Sample Name#	: Stack Unit-1	Commenced On	: 26/03/2026
Sample Condition	: Good	Completed On	: 31/03/2026
Sample Details (if any)		Date of Report	: 14/04/2026
Sample Quantity#	: 1 Thimble, 30ml, 25ml		
Packaging Mode#	: Packed in vials		
Batch No./QR Code#	: Date of Sampling: 24.03.2026	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Ramesh Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 24.03.2026		
Test Report as per#	: EPA-1986, PCLS/02/2021		

S. No. Sampling Information:

(a)	Name of the emission source monitored	: Stack Emission of Unit-1
(b)	Rated Capacity	: 660 MW
(c)	Capacity on sampling day	: 452 MW
(d)	Type of fuel used & its consumption	: Coal & 235 ton/hr
(e)	Normal operating schedule	: 24 hrs
(f)	Stack Identification	: Stack attached to Unit-1 (660 MW) At 80 meter height
(g)	Type of Stack/Duct	: Metal
(h)	Stack Height from Ground Level , m	: 275
(i)	Diameter of the Stack , cm	: 740
(j)	Sampling Duration , minutes	: 24
(k)	Purpose of Monitoring	: To assess the Pollution Load
(l)	Air Pollution control measure	: ESPs
(m)	Status	: Working
(n)	Recovery of Material	: -
(o)	Fugitive Emissionif any	: Nil
(p)	Date of Monitoring	: 24-03-2026
(q)	Time of Monitoring	: 13:20 to 13:44 hrs
	Observations:	
(r)	Flue Gas Temperature , °C Avg.	: 113
(s)	Flue Gas Velocity , m/s Avg.	: 22.86
(t)	Volumetric Flow Rate , Nm3/hr.	: 2702371.37

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 14/04/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2604140330**
NABL ULR No. : **TC1489626000010953F**

(u) Ambient Air Temperature , °C : 29
(v) Barometric Pressure , mmHg : 752

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**General Parameters**				
1	Carbon Monoxide(CO)	% v/v	IS:13270	0.2	Max. 1.0
2	Mercury(as Hg)	mg/Nm3	USEPA Method	BLQ(LOQ : 0.01)	Max. 0.03
3	Particulate Matter(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-1)	32	Max. 50
4	Carbon Dioxide (CO2)	%	IS:13270	12.2	Not Specified
5	Sulphur Dioxide(SO2)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-2)	645	Not Applicable
6	Moisture	% by mass	IS: 11255 (P-3)	1.511	Not Specified
7	Oxygen (O2)	% v/v	IS:13270	6.8	Not Specified
8	Oxides of Nitrogen (NOx)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-7)	210	Max. 450

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Requirement as per EPA-1986, PCLS/02/2021. Sampling Procedure: SOP/ITC/EW/056. Sample Collected by lab rep. on 24-03-2026.

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 14/04/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2604140329**

NABL ULR No. : **TC148962600010952F**

Issued To :

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POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2603261179	Received On	: 26/03/2026
Sample Name#	: Stack Unit-2	Commenced On	: 26/03/2026
Sample Condition	: Good	Completed On	: 31/03/2026
Sample Details (if any)		Date of Report	: 14/04/2026
Sample Quantity#	: 1 Thimble, 30ml, 25ml		
Packaging Mode#	: Packed in vials		
Batch No./QR Code#	: Date of Sampling: 24.03.2026	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Ramesh Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 24.03.2026		
Test Report as per#	: EPA-1986, PCLS/02/2021		

S. No.	Sampling Information:	
(a)	Name of the emission source monitored	: Stack Emission of Unit-2
(b)	Rated Capacity	: 660 MW
(c)	Capacity on sampling day	: 393 MW
(d)	Type of fuel used & its consumption	: Coal & 209 ton/hr
(e)	Normal operating schedule	: 24 hrs
(f)	Stack Identification	: Stack attached to Unit-2 (660 MW) At 80 meter height
(g)	Type of Stack/Duct	: Metal
(h)	Stack Height from Ground Level , m	: 275
(i)	Diameter of the Stack , cm	: 740
(j)	Sampling Duration , minutes	: 24
(k)	Purpose of Monitoring	: To assess the Pollution Load
(l)	Air Pollution control measure	: ESPs
(m)	Status	: Working
(n)	Recovery of Material	: -
(o)	Fugitive Emissionif any	: Nil
(p)	Date of Monitoring	: 24-03-2026
(q)	Time of Monitoring	: 10:50 to 11:14 hrs
	Observations:	
(r)	Flue Gas Temperature , °C Avg.	: 113
(s)	Flue Gas Velocity , m/s Avg.	: 22.86
(t)	Volumetric Flow Rate , Nm3/hr.	: 2702371.37

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 14/04/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2604140329**

NABL ULR No. : **TC1489626000010952F**

(u) Ambient Air Temperature , °C : 29

(v) Barometric Pressure , mmHg : 752

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**General Parameters**				
1	Carbon Monoxide(CO)	% v/v	IS:13270	0.2	Max. 1.0
2	Mercury(as Hg)	mg/Nm3	USEPA Method	BLQ(LOQ : 0.01)	Max. 0.03
3	Particulate Matter(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-1)	35	Max. 50
4	Carbon Dioxide (CO2)	%	IS:13270	12.8	Not Specified
5	Sulphur Dioxide(SO2)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-2)	658	Not Applicable
6	Moisture	% by mass	IS: 11255 (P-3)	1.309	Not Specified
7	Oxygen (O2)	% v/v	IS:13270	6.2	Not Specified
8	Oxides of Nitrogen (NOx)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-7)	272	Max. 450

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Requirement as per EPA-1986, PCLS/02/2021. Sampling Procedure: SOP/ITC/EW/056. Sample Collected by lab rep. on 24-03-2026.

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 14/04/2026

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TEST REPORT

Test Report No. : **TR01EN-2604140327**

NABL ULR No. : **TC1489626000010950F**

Issued To :

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POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2603261180	Received On	: 26/03/2026
Sample Name#	: Stack Unit-3	Commenced On	: 26/03/2026
Sample Condition	: Good	Completed On	: 31/03/2026
Sample Details (if any)		Date of Report	: 14/04/2026
Sample Quantity#	: 1 Thimble, 30ml, 25ml		
Packaging Mode#	: Packed in vials		
Batch No./QR Code#	: Date of Sampling: 24.03.2026	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Ramesh Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 24.03.2026		
Test Report as per#	: EPA-1986, PCLS/02/2021		

S. No.	Sampling Information:	
(a)	Name of the emission source monitored	: Stack Emission of Unit-3
(b)	Rated Capacity	: 660 MW
(c)	Capacity on sampling day	: 415 mw
(d)	Type of fuel used & its consumption	: Coal & 201 MW
(e)	Normal operating schedule	: 24 hrs
(f)	Stack Identification	: Stack attached to Unit-3 (660 MW) At 80 meter height
(g)	Type of Stack/Duct	: Metal
(h)	Stack Height from Ground Level , m	: 275
(i)	Diameter of the Stack , cm	: 740
(j)	Sampling Duration , minutes	: 24
(k)	Purpose of Monitoring	: To assess the Pollution Load
(l)	Air Pollution control measure	: ESPs
(m)	Status	: Working
(n)	Recovery of Material	: -
(o)	Fugitive Emissionif any	: Nil
(p)	Date of Monitoring	: 24-03-2026
(q)	Time of Monitoring	: 11:35 to 11:59 hrs
	Observations:	
(r)	Flue Gas Temperature , °C Avg.	: 111
(s)	Flue Gas Velocity , m/s Avg.	: 22.92
(t)	Volumetric Flow Rate , Nm3/hr.	: 2716332.45

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 14/04/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2604140327**
NABL ULR No. : **TC1489626000010950F**

(u)	Ambient Air Temperature , °C	: 29
(v)	Barometric Pressure , mmHg	: 750

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**General Parameters**				
1	Carbon Monoxide(CO)	% v/v	IS:13270	0.2	Max. 1.0
2	Mercury(as Hg)	mg/Nm3	USEPA Method	BLQ(LOQ : 0.01)	Max. 0.03
3	Particulate Matter(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-1)	26	Max. 30
4	Carbon Dioxide (CO2)	%	IS:13270	12.8	Not Specified
5	Sulphur Dioxide(SO2)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-2)	640	Not Applicable
6	Moisture	% by mass	IS: 11255 (P-3)	1.156	Not Specified
7	Oxygen (O2)	% v/v	IS:13270	6.4	Not Specified
8	Oxides of Nitrogen (NOx)(Corrected to 6% O2 on dry basis)	mg/Nm3	IS:11255(P-7)	318	Max. 100

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Requirement as per EPA-1986, PCLS/02/2021. Sampling Procedure: SOP/ITC/EW/056. Sample Collected by lab rep. on 24-03-2026.

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 14/04/2026

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Annuxure-2

Photograph of the pollution control equipment, dust suppression system



ESP 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

Annuxure-2



Water sprinkling through tankers in ash pond bund

Annexure-3

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TEST REPORT

ORIGINAL
Page 1 of 1

Report No. : TR01EN-2601130492 (1)

ULR No. : TC1489626000001414F

Issued To :

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POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2512311512	Received On	: 31/12/2025
Sample Name#	: Waste Water (Ash Pond Water)	Commenced On	: 31/12/2025
Sample Condition	: Good	Completed On	: 12/01/2026
Sample Details (if any)		Date of Report	: 13/01/2026
Sample Quantity#	: 2 Ltr		
Packaging Mode#	: Packed in bottle		
Batch No./QR Code#	: NA	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Rahul Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Sample Collected by lab rep. on: 30.12.2025		
Test Report as per#	: EPA-1986, PCLS/02/2021		

Description: Waste Water (Ash Pond Water)

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Pollution & Environment				
(I)	**General Parameters**				
1	pH Value	NA	IS: 3025 (Part-11): 2022	7.44	5 - 9
2	Total Suspended Solids	mg/l	IS: 3025 (P-17): 2022	14	Max. 100
3	Total Chromium(as Cr)	mg/l	IS:3025 (Part-2): 2019	BLQ(LOQ:0.05)	Max. 2.0
4	Lead(as Pb)	mg/l	IS:3025 (Part-2): 2019	BLQ(LOQ:0.05)	Max. 0.1
5	Oil & Grease	mg/l	IS: 3025 (Part 39)-2021	<4.0	Max. 10
6	Arsenic(as As)	mg/l	IS:3025 (Part-2): 2019	BLQ(LOQ:0.05)	Max. 0.2

represents Customer Defined Fields

NOTE : NA- Not Applicable. LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Requirement as per EPA-1986, PCLS/02/2021. Sampling Procedure: SOP/ITC/EW/030.

REMARKS : See Note

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

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 13/01/2026

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TEST REPORT

ORIGINAL

Report No. : TR01EN-2601130492 (2)

Issued To :

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POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2512311512	Received On	: 31/12/2025
Sample Name#	: Waste Water (Ash Pond Water)	Commenced On	: 31/12/2025
Sample Condition	: Good	Completed On	: 12/01/2026
Sample Details (if any)		Date of Report	: 13/01/2026
Sample Quantity#	: 2 Ltr		
Packaging Mode#	: Packed in bottle		
Batch No./QR Code#	: NA	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Rahul Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Sample Collected by lab rep. on: 30.12.2025		
Test Report as per#	: EPA-1986, PCLS/02/2021		

Description: Waste Water (Ash Pond Water)

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Pollution & Environment				
(I)	**General Parameters**				
1	Mercury(as Hg)	mg/l	IS:3025 (Part-2): 2019	BLQ(LOQ:0.01)	Max. 0.01

represents Customer Defined Fields

NOTE : NA- Not Applicable. LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Requirement as per EPA-1986, PCLS/02/2021. Sampling Procedure: SOP/ITC/EW/030.

REMARKS : See Note

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

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 13/01/2026

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Annexure-4

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TEST REPORT

ORIGINAL

Report No. : TR01EN-2511190538 (1)

ULR No. : TC1489625000026870F

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2510281173	Received On	: 28/10/2025
Sample Name#	: Ground Water	Commenced On	: 28/10/2025
Sample Condition	: Good	Completed On	: 04/11/2025
Sample Details (if any)		Date of Report	: 19/11/2025
Sample Quantity#	: 5 Ltr		
Packaging Mode#	: Packed in bottles		
Batch No./QR Code#	: Sample from HP-2 Kapari Panchayat Bhawan	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Rahul Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Sample Collected by lab rep. Mr. Rahul:: 27.10.2025		
Test Report as per#	: IS 10500:2012	With Amendment No.(s)	: 01 to 04

Description: Clear Colourless Liquid

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Acceptable Limit	Permissible Limit
	Discipline : Chemical						
	Group : Water						
(I)	**Organoleptic &Physical Parameter**						
1	pH Value	NA	pH Meter	IS: 3025 (Part-11): 2022	7.52	6.5-8.5	No relaxation
2	Odour	NA	Organoleptic	IS: 3025 (P-5)-2018	Agreeable	Agreeable	Agreeable
3	Turbidity	NTU	Turbidity Meter	IS 3025(Part-10): 2023	<0.5	1 Max.	5 Max.
4	Taste	mg/l	Organoleptic	IS 3025(Part-8): 2023	Agreeable	Agreeable	Agreeable
5	Total Dissolved Solids	mg/l	Gravimetric	IS: 3025 (P-16): 2023	301	500 Max.	2000 Max.
6	Colour (True Colour)	Hazen	Visual Examination	IS 3025 (Part 4) : 2021	2	5 Max.	15 Max.
(II)	**Parameters Concerning Undesirable Substances in excess amount**						
1	Aluminium(as Al)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.003)	0.03 Max.	0.2 Max.
2	Anionic detergent(as MBAS)	mg/l	UV-Spectrophotometer	IS 3025 (Part 68):2019	BLQ(LOQ:0.05)	0.2 Max.	1.0 Max.

Authorized Signatory(Microbiology)
Name : Deepika Heera
Discipline : Biological
Date : 19/11/2025

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 19/11/2025

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TC - 14896

TEST REPORT

Report No. : TR01EN-2511190538 (1)
ULR No. : TC1489625000026870F

3	Barium(as Ba)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.324	0.7 Max.	No relaxation
4	Boron(as B)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.5 Max.	2.4 Max.
5	Calcium(as Ca)	mg/l	Titration	IS: 3025 (Part 40):2024	49	75 Max.	200 Max.
6	Chloride(as Cl)	mg/l	Titration	IS: 3025 (P-32)-1988 (RA2019)	71	250 Max.	1000 Max.
7	Copper(as Cu)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.012	0.05 Max.	1.5 Max.
8	Fluoride(as F)	mg/l	Visual Examination	IS: 3025 (P-60)-2008 (RA 2019)	0.3	1.0 Max.	1.5 Max.
9	Free Residual Chlorine	mg/l	Titration	IS: 3025 (P-26): 2021	BLQ(LOQ:0.03)	0.2 Min.	1.0 Max.
10	Magnesium(as Mg)	mg/l	By Calculation	IS 3025 (Part 46): 2023	7.1	30 Max.	100 Max.
11	Manganese(as Mn)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.1 Max.	0.3 Max.
12	Nitrate(as NO3)	mg/l	UV-Spectrophotometer	APHA 24th Edition 2023, 4500 NO3, B	15.2	45 Max.	No Relaxation
13	Phenolic compounds(as C6H5OH)	mg/l	UV-Spectrophotometer	IS: 3025 (P-43/Sec-1)-2022	BLQ(LOQ:0.001)	0.001 Max.	0.002 Max.
14	Selenium(as Se)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.01 Max.	No Relaxation
15	Sulphate(as SO4)	mg/l	UV-Spectrophotometer	IS : 3025 (Part 24): Sec1:2022	58	200 Max.	400 Max.
16	Total Hardness(as CaCO3)	mg/l	Titration	IS: 3025 (Part 21)-2009 (RA 2023)	152	200 Max.	600 Max.
17	Zinc(as Zn)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.422	5 Max.	15 Max.
18	Total Alkalinity(as CaCO3)	mg/l	Titration	IS 3025(Part-23): 2023	52	200 Max.	600 Max.
19	Iron(as Fe)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.016	1.0 Max.	No Relaxation
(III)	**Parameters Concerning Toxic Substances**						
1	Cadmium(as Cd)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.003 Max.	No Relaxation
2	Cyanide(asCN)	mg/l	UV-Spectrophotometer	IS 3025 (Part-27/Sec 1): 2021	BLQ(LOQ:0.01)	0.05 Max.	No Relaxation
3	Lead(as Pb)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.003	0.01 Max.	No Relaxation

Authorized Signatory(Microbiology)
Name : Deepika Heera
Discipline : Biological
Date : 19/11/2025

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 19/11/2025

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0172-2561543 customersupport@itclabs.com www.itclabs.com

TC - 14896

TEST REPORT

Report No. : TR01EN-2511190538 (1)
ULR No. : TC1489625000026870F

4	Mercury(as Hg)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.001)	0.001 Max.	No Relaxation
5	Molybdenum(as Mo)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.07 Max.	No Relaxation
6	Nickel(as Ni)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.02 Max.	No Relaxation
7	Total Arsenic(as As)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.01 Max.	No relaxation
	Discipline : Biological						
	Group : Water						
(IV)	**Microbiological Tests**						
1	*E.coli*	Per 100ml	Microbiological	IS 15185: 2016	Absent/100ml	Shall not be detectable in any 100 ml sample	No Relaxation
2	*Total Coliform*	Per 100ml	Microbiological	IS 15185: 2016	Absent/100ml	Shall not be detectable in any 100 ml sample	No Relaxation

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Sampling Procedure: SOP/ITC/EW/030.

REMARKS : The above sample complies to IS 10500 : 2012 drinking water specification with respect to the above tested Parameters

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

Authorized Signatory(Microbiology)
Name : Deepika Heera
Discipline : Biological
Date : 19/11/2025

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 19/11/2025

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TEST REPORT

ORIGINAL

Report No. : TR01EN-2511190538 (2)

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2510281173	Received On	: 28/10/2025
Sample Name#	: Ground Water	Commenced On	: 28/10/2025
Sample Condition	: Good	Completed On	: 04/11/2025
Sample Details (if any)		Date of Report	: 19/11/2025
Sample Quantity#	: 5 Ltr		
Packaging Mode#	: Packed in bottles		
Batch No./QR Code#	: Sample from HP-2 Kapari Panchayat Bhawan	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Rahul Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Sample Collected by lab rep. Mr. Rahul:: 27.10.2025		
Test Report as per#	: IS 10500:2012	With Amendment No.(s)	: 01 to 04

Description: Clear Colourless Liquid

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Acceptable Limit	Permissible Limit
	Discipline : Chemical						
	Group : Water						
(I)	**General Parameters**						
1	Chromium(as Cr6+)	mg/l	UV-Spectrophotometer	IS 3025 (Part 52): 2003	BLQ(LOQ:0.01)		

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Sampling Procedure: SOP/ITC/EW/030.

REMARKS : The above sample complies to IS 10500 : 2012 drinking water specification with respect to the above tested Parameters

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

Authorized Signatory(Microbiology)
Name : Deepika Heera
Discipline : Biological
Date : 19/11/2025

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 19/11/2025

Disclaimer :

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TC - 14896

TEST REPORT

ORIGINAL

Report No. : TR01EN-2512150277 (1)

ULR No. : TC1489625000029254F

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2511290953	Received On	: 29/11/2025
Sample Name#	: Ground Water	Commenced On	: 29/11/2025
Sample Condition	: Good	Completed On	: 12/12/2025
Sample Details (if any)		Date of Report	: 15/12/2025
Sample Quantity#	: 4 Ltr		
Packaging Mode#	: Packed in bottles		
Batch No./QR Code#	: Sample from HP-2 Kapari Panchayat Bhawan	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Rahul Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Sample Collected by lab rep. Mr. Rahul on: 28.11.2025		
Test Report as per#	: IS 10500:2012	With Amendment No.(s)	: 01 to 04

Description: Clear Colorless Liquid

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Acceptable Limit	Permissible Limit
	Discipline : Chemical						
	Group : Water						
(I)	**Organoleptic &Physical Parameter**						
1	pH Value	NA	pH Meter	IS: 3025 (Part-11): 2022	7.52	6.5-8.5	No relaxation
2	Odour	NA	Organoleptic	IS: 3025 (P-5)-2018	Agreeable	Agreeable	Agreeable
3	Turbidity	NTU	Turbidity Meter	IS 3025(Part-10): 2023	<0.5	1 Max.	5 Max.
4	Taste	mg/l	Organoleptic	IS 3025(Part-8): 2023	Agreeable	Agreeable	Agreeable
5	Total Dissolved Solids	mg/l	Gravimetric	IS: 3025 (P-16): 2023	302	500 Max.	2000 Max.
6	Colour (True Colour)	Hazen	Visual Examination	IS 3025 (Part 4) : 2021	2	5 Max.	15 Max.
(II)	**Parameters Concerning Undesirable Substances in excess amount**						
1	Aluminium(as Al)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.003)	0.03 Max.	0.2 Max.
2	Anionic detergent(as MBAS)	mg/l	UV-Spectrophotometer	IS 3025 (Part 68):2019	BLQ(LOQ:0.05)	0.2 Max.	1.0 Max.

Authorized Signatory(Microbiology)
Name : Deepika Heera
Discipline : Biological
Date : 15/12/2025

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 15/12/2025

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TC - 14896

TEST REPORT

ORIGINAL

Report No. : TR01EN-2512150277 (1)
ULR No. : TC148962500002954F

3	Barium(as Ba)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.267	0.7 Max.	No relaxation
4	Boron(as B)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.005	0.5 Max.	2.4 Max.
5	Calcium(as Ca)	mg/l	Titration	IS: 3025 (Part 40):2024	50	75 Max.	200 Max.
6	Chloride(as Cl)	mg/l	Titration	IS: 3025 (P-32)-1988 (RA2019)	72	250 Max.	1000 Max.
7	Copper(as Cu)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.018	0.05 Max.	1.5 Max.
8	Fluoride(as F)	mg/l	Visual Examination	IS: 3025 (P-60)-2008 (RA 2019)	0.3	1.0 Max.	1.5 Max.
9	Free Residual Chlorine	mg/l	Titration	IS: 3025 (P-26): 2021	BLQ(LOQ:0.03)	0.2 Min.	1.0 Max.
10	Magnesium(as Mg)	mg/l	By Calculation	IS 3025 (Part 46): 2023	7.5	30 Max.	100 Max.
11	Manganese(as Mn)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.1 Max.	0.3 Max.
12	Nitrate(as NO3)	mg/l	UV-Spectrophotometer	APHA 24th Edition 2023, 4500 NO3, B	15.4	45 Max.	No Relaxation
13	Phenolic compounds(as C6H5OH)	mg/l	UV-Spectrophotometer	IS: 3025 (P-43/Sec-1)-2022	BLQ(LOQ:0.001)	0.001 Max.	0.002 Max.
14	Selenium(as Se)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.01 Max.	No Relaxation
15	Sulphate(as SO4)	mg/l	UV-Spectrophotometer	IS : 3025 (Part 24): Sec1:2022	58	200 Max.	400 Max.
16	Total Hardness(as CaCO3)	mg/l	Titration	IS: 3025 (Part 21)-2009 (RA 2023)	156	200 Max.	600 Max.
17	Zinc(as Zn)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.526	5 Max.	15 Max.
18	Total Alkalinity(as CaCO3)	mg/l	Titration	IS 3025(Part-23): 2023	52	200 Max.	600 Max.
19	Iron(as Fe)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.074	1.0 Max.	No Relaxation
(III)	**Parameters Concerning Toxic Substances**						
1	Cadmium(as Cd)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.003 Max.	No Relaxation
2	Cyanide(asCN)	mg/l	UV-Spectrophotometer	IS 3025 (Part-27/Sec 1): 2021	BLQ(LOQ:0.01)	0.05 Max.	No Relaxation
3	Lead(as Pb)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.003	0.01 Max.	No Relaxation

Authorized Signatory(Microbiology)
Name : Deepika Heera
Discipline : Biological
Date : 15/12/2025

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 15/12/2025

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TC - 14896

TEST REPORT

Report No. : TR01EN-2512150277 (1)

ULR No. : TC1489625000029254F

4	Mercury(as Hg)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.001)	0.001 Max.	No Relaxation
5	Molybdenum(as Mo)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.07 Max.	No Relaxation
6	Nickel(as Ni)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.02 Max.	No Relaxation
7	Total Arsenic(as As)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.01 Max.	No relaxation
	Discipline : Biological						
	Group : Water						
(IV)	**Microbiological Tests**						
1	*E.coli*	Per 100ml	Microbiological	IS 15185: 2016	Absent/100ml	Shall not be detectable in any 100 ml sample	No Relaxation
2	*Total Coliform*	Per 100ml	Microbiological	IS 15185: 2016	Absent/100ml	Shall not be detectable in any 100 ml sample	No Relaxation

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification, Sampling Procedure: SOP/ITC/EW/030.

REMARKS : See Note

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

Authorized Signatory(Microbiology)
Name : Deepika Heera
Discipline : Biological
Date : 15/12/2025

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 15/12/2025

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TEST REPORT

Report No. : TR01EN-2512150277 (2)

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2511290953	Received On	: 29/11/2025
Sample Name#	: Ground Water	Commenced On	: 29/11/2025
Sample Condition	: Good	Completed On	: 12/12/2025
Sample Details (if any)		Date of Report	: 15/12/2025
Sample Quantity#	: 4 Ltr		
Packaging Mode#	: Packed in bottles		
Batch No./QR Code#	: Sample from HP-2 Kapari Panchayat Bhawan	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Rahul Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Sample Collected by lab rep. Mr. Rahul on: 28.11.2025		
Test Report as per#	: IS 10500:2012	With Amendment No.(s)	: 01 to 04

Description: Clear Colorless Liquid

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Acceptable Limit	Permissible Limit
	Discipline : Chemical						
	Group : Water						
(I)	**General Parameters**						
1	Chromium(as Cr6+)	mg/l	UV-Spectrophotometer	IS 3025 (Part 52): 2003	BLQ(LOQ:0.01)		

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification, Sampling Procedure: SOP/ITC/EW/030.

REMARKS : See Note

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

Authorized Signatory(Microbiology)
Name : Deepika Heera
Discipline : Biological
Date : 15/12/2025

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 15/12/2025

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ilac-MRA — TC - 14896

TEST REPORT

ORIGINAL

Report No. : TR01EN-2601130493 (1)

ULR No. : TC1489626000001415F

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No. : SR01EN-2512311515
Sample Name# : Ground Water
Sample Condition : Good
Sample Details (if any)
Sample Quantity# : 5 Ltr
Packaging Mode# : Packed in bottles
Batch No./QR Code# : Sample from HP-2 Kapari Panchayat Bhawan
Date of Manufacture# : NA
Sample Submission Type : Sampled by Lab Rep /Rahul Kumar Nishad
Customer Reference# : PO/22/05/2024
Any Other Information# : Sample Collected by lab rep. Mr. Rahul on: 30.12.2025
Test Report as per# : IS 10500:2012

Received On : 31/12/2025
Commenced On : 31/12/2025
Completed On : 06/01/2026
Date of Report : 13/01/2026

Grade# : NA
Date of Expiry# : NA

With Amendment No.(s) : 01 to 04

Description: Clear Colorless Liquid

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Acceptable Limit	Permissible Limit
	Discipline : Chemical						
	Group : Water						
(I)	**Organoleptic &Physical Parameter**						
1	pH Value	NA	pH Meter	IS: 3025 (Part-11): 2022	7.48	6.5-8.5	No relaxation
2	Odour	NA	Organoleptic	IS: 3025 (P-5)-2018	Agreeable	Agreeable	Agreeable
3	Turbidity	NTU	Turbidity Meter	IS 3025(Part-10): 2023	<0.5	1 Max.	5 Max.
4	Taste	mg/l	Organoleptic	IS 3025(Part-8): 2023	Agreeable	Agreeable	Agreeable
5	Total Dissolved Solids	mg/l	Gravimetric	IS: 3025 (P-16): 2023	297	500 Max.	2000 Max.
6	Colour (True Colour)	Hazen	Visual Examination	IS 3025 (Part 4) : 2021	2	5 Max.	15 Max.
(II)	**Parameters Concerning Undesirable Substances in excess amount**						
1	Aluminium(as Al)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.003)	0.03 Max.	0.2 Max.
2	Anionic detergent(as MBAS)	mg/l	UV-Spectrophotometer	IS 3025 (Part 68):2019	BLQ(LOQ:0.05)	0.2 Max.	1.0 Max.

Authorized Signatory(Microbiology)
Name : Deepika Heera
Discipline : Biological
Date : 13/01/2026

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 13/01/2026

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0172-2561543 customersupport@itclabs.com www.itclabs.com

ilac-MRA TC - 14896

TEST REPORT

Report No. : TR01EN-2601130493 (1)
ULR No. : TC1489626000001415F

3	Barium(as Ba)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.297	0.7 Max.	No relaxation
4	Boron(as B)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.042	0.5 Max.	2.4 Max.
5	Calcium(as Ca)	mg/l	Titration	IS: 3025 (Part 40):2024	49	75 Max.	200 Max.
6	Chloride(as Cl)	mg/l	Titration	IS: 3025 (P-32)-1988 (RA2019)	70	250 Max.	1000 Max.
7	Copper(as Cu)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.008	0.05 Max.	1.5 Max.
8	Fluoride(as F)	mg/l	Visual Examination	IS: 3025 (P-60)-2008 (RA 2019)	0.3	1.0 Max.	1.5 Max.
9	Free Residual Chlorine	mg/l	Titration	IS: 3025 (P-26): 2021	BLQ(LOQ:0.03)	0.2 Min.	1.0 Max.
10	Magnesium(as Mg)	mg/l	By Calculation	IS 3025 (Part 46): 2023	7.1	30 Max.	100 Max.
11	Manganese(as Mn)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.1 Max.	0.3 Max.
12	Nitrate(as NO3)	mg/l	UV-Spectrophotometer	APHA 24th Edition 2023, 4500 NO3, B	16.1	45 Max.	No Relaxation
13	Phenolic compounds(as C6H5OH)	mg/l	UV-Spectrophotometer	IS: 3025 (P-43/Sec-1)-2022	BLQ(LOQ:0.001)	0.001 Max.	0.002 Max.
14	Selenium(as Se)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.01 Max.	No Relaxation
15	Sulphate(as SO4)	mg/l	UV-Spectrophotometer	IS : 3025 (Part 24): Sec1:2022	56	200 Max.	400 Max.
16	Total Hardness(as CaCO3)	mg/l	Titration	IS: 3025 (Part 21)-2009 (RA 2023)	152	200 Max.	600 Max.
17	Zinc(as Zn)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.454	5 Max.	15 Max.
18	Total Alkalinity(as CaCO3)	mg/l	Titration	IS 3025(Part-23): 2023	48	200 Max.	600 Max.
19	Iron(as Fe)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.035	1.0 Max.	No Relaxation
(III)	**Parameters Concerning Toxic Substances**						
1	Cadmium(as Cd)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.003 Max.	No Relaxation
2	Cyanide(asCN)	mg/l	UV-Spectrophotometer	IS 3025 (Part-27/Sec 1): 2021	BLQ(LOQ:0.01)	0.05 Max.	No Relaxation
3	Lead(as Pb)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.002	0.01 Max.	No Relaxation

Authorized Signatory(Microbiology)
Name : Deepika Heera
Discipline : Biological
Date : 13/01/2026

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 13/01/2026

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0172-2561543 customersupport@itclabs.com www.itclabs.com

TC - 14896

TEST REPORT

ORIGINAL

Report No. : TR01EN-2601130493 (1)
ULR No. : TC1489626000001415F

4	Mercury(as Hg)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.001)	0.001 Max.	No Relaxation
5	Molybdenum(as Mo)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.07 Max.	No Relaxation
6	Nickel(as Ni)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.02 Max.	No Relaxation
7	Total Arsenic(as As)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.01 Max.	No relaxation
	Discipline : Biological						
	Group : Water						
(IV)	**Microbiological Tests**						
1	*E.coli*	Per 100ml	Microbiological	IS 15185: 2016	Absent/100ml	Shall not be detectable in any 100 ml sample	No Relaxation
2	*Total Coliform*	Per 100ml	Microbiological	IS 15185: 2016	Absent/100ml	Shall not be detectable in any 100 ml sample	No Relaxation

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification, Sampling Procedure: SOP/ITC/EW/030.

REMARKS : The above sample complies with IS 10500:2012 with respect to the above tested Parameters

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

Authorized Signatory(Microbiology)
Name : Deepika Heera
Discipline : Biological
Date : 13/01/2026

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 13/01/2026

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TEST REPORT

ORIGINAL

Report No. : TR01EN-2601130493 (2)

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2512311515	Received On	: 31/12/2025
Sample Name#	: Ground Water	Commenced On	: 31/12/2025
Sample Condition	: Good	Completed On	: 06/01/2026
Sample Details (if any)		Date of Report	: 13/01/2026
Sample Quantity#	: 5 Ltr		
Packaging Mode#	: Packed in bottles		
Batch No./QR Code#	: Sample from HP-2 Kapari Panchayat Bhawan	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Rahul Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Sample Collected by lab rep. Mr. Rahul on: 30.12.2025		
Test Report as per#	: IS 10500:2012	With Amendment No.(s)	: 01 to 04

Description: Clear Colorless Liquid

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Acceptable Limit	Permissible Limit
	Discipline : Chemical						
	Group : Water						
(I)	**General Parameters**						
1	Chromium(as Cr6+)	mg/l	UV-Spectrophotometer	IS 3025 (Part 52): 2003	BLQ(LOQ:0.01)		

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification, Sampling Procedure: SOP/ITC/EW/030.

REMARKS : The above sample complies with IS 10500:2012 with respect to the above tested Parameters

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

Authorized Signatory(Microbiology)
Name : Deepika Heera
Discipline : Biological
Date : 13/01/2026

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 13/01/2026

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TC - 14896

TEST REPORT

ORIGINAL

Report No. : TR01EN-2602130276 (1)

ULR No. : TC1489626000004372F

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2601291350	Received On	: 29/01/2026
Sample Name#	: Ground Water	Commenced On	: 29/01/2026
Sample Condition	: Good	Completed On	: 04/02/2026
Sample Details (if any)		Date of Report	: 13/02/2026
Sample Quantity#	: 5 Ltr		
Packaging Mode#	: Packed in bottles		
Batch No./QR Code#	: Sample from HP-2 Kapari Panchayat Bhawan	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Rahul Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Sample Collected by lab rep. Mr. Rahul on: 27.01.2026		
Test Report as per#	: IS 10500:2012	With Amendment No.(s)	: 01 to 04

Description: Clear Colorless Liquid

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Acceptable Limit	Permissible Limit
	Discipline : Chemical						
	Group : Water						
(I)	**Organoleptic &Physical Parameter**						
1	pH Value	NA	pH Meter	IS: 3025 (Part-11): 2022	7.43	6.5-8.5	No relaxation
2	Odour	NA	Organoleptic	IS: 3025 (P-5)-2018	Agreeable	Agreeable	Agreeable
3	Turbidity	NTU	Turbidity Meter	IS 3025(Part-10): 2023	0.8	1 Max.	5 Max.
4	Taste	mg/l	Organoleptic	IS 3025(Part-8): 2023	Agreeable	Agreeable	Agreeable
5	Total Dissolved Solids	mg/l	Gravimetric	IS: 3025 (P-16): 2023	296	500 Max.	2000 Max.
6	Colour (True Colour)	Hazen	Visual Examination	IS 3025 (Part 4) : 2021	2	5 Max.	15 Max.
(II)	**Parameters Concerning Undesirable Substances in excess amount**						
1	Aluminium(as Al)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.003)	0.03 Max.	0.2 Max.
2	Anionic detergent(as MBAS)	mg/l	UV-Spectrophotometer	IS 3025 (Part 68):2019	BLQ(LOQ:0.05)	0.2 Max.	1.0 Max.

Authorized Signatory(Microbiology)
Name : Deepika Heera
Discipline : Biological
Date : 13/02/2026

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 13/02/2026

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TC - 14896

TEST REPORT

Report No. : TR01EN-2602130276 (1)
ULR No. : TC1489626000004372F

3	Barium(as Ba)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.090	0.7 Max.	No relaxation
4	Boron(as B)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.043	0.5 Max.	2.4 Max.
5	Calcium(as Ca)	mg/l	Titration	IS: 3025 (Part 40):2024	54	75 Max.	200 Max.
6	Chloride(as Cl)	mg/l	Titration	IS: 3025 (P-32)-1988 (RA2019)	70	250 Max.	1000 Max.
7	Copper(as Cu)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.009	0.05 Max.	1.5 Max.
8	Fluoride(as F)	mg/l	Visual Examination	IS: 3025 (P-60)-2008 (RA 2019)	0.1	1.0 Max.	1.5 Max.
9	Free Residual Chlorine	mg/l	Titration	IS: 3025 (P-26): 2021	BLQ(LOQ:0.03)	0.2 Min.	1.0 Max.
10	Magnesium(as Mg)	mg/l	By Calculation	IS 3025 (Part 46): 2023	2.8	30 Max.	100 Max.
11	Manganese(as Mn)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.1 Max.	0.3 Max.
12	Nitrate(as NO3)	mg/l	UV-Spectrophotometer	APHA 24th Edition 2023, 4500 NO3, B	18.9	45 Max.	No Relaxation
13	Phenolic compounds(as C6H5OH)	mg/l	UV-Spectrophotometer	IS: 3025 (P-43/Sec-1)-2022	BLQ(LOQ:0.001)	0.001 Max.	0.002 Max.
14	Selenium(as Se)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.01 Max.	No Relaxation
15	Sulphate(as SO4)	mg/l	UV-Spectrophotometer	IS : 3025 (Part 24): Sec1:2022	53.8	200 Max.	400 Max.
16	Total Hardness(as CaCO3)	mg/l	Titration	IS: 3025 (Part 21)-2009 (RA 2023)	146.5	200 Max.	600 Max.
17	Zinc(as Zn)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.020	5 Max.	15 Max.
18	Total Alkalinity(as CaCO3)	mg/l	Titration	IS 3025(Part-23): 2023	49.7	200 Max.	600 Max.
19	Iron(as Fe)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.004	1.0 Max.	No Relaxation
(III)	**Parameters Concerning Toxic Substances**						
1	Cadmium(as Cd)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.003 Max.	No Relaxation
2	Cyanide(asCN)	mg/l	UV-Spectrophotometer	IS 3025 (Part-27/Sec 1): 2021	BLQ(LOQ:0.01)	0.05 Max.	No Relaxation
3	Lead(as Pb)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.01 Max.	No Relaxation

Authorized Signatory(Microbiology)
Name : Deepika Heera
Discipline : Biological
Date : 13/02/2026

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 13/02/2026

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TC - 14896

TEST REPORT

ORIGINAL

Report No. : TR01EN-2602130276 (1)
ULR No. : TC1489626000004372F

4	Mercury(as Hg)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.001)	0.001 Max.	No Relaxation
5	Molybdenum(as Mo)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.07 Max.	No Relaxation
6	Nickel(as Ni)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.02 Max.	No Relaxation
7	Total Arsenic(as As)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.01 Max.	No relaxation
	Discipline : Biological						
	Group : Water						
(IV)	**Microbiological Tests**						
1	*E.coli*	Per 100ml	Microbiological	IS 15185: 2016	Absent/100ml	Shall not be detectable in any 100 ml sample	No Relaxation
2	*Total Coliform*	Per 100ml	Microbiological	IS 15185: 2016	Absent/100ml	Shall not be detectable in any 100 ml sample	No Relaxation

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification, Sampling Procedure: SOP/ITC/EW/030.

REMARKS : See Note

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

Authorized Signatory(Microbiology)
Name : Deepika Heera
Discipline : Biological
Date : 13/02/2026

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 13/02/2026

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TEST REPORT

ORIGINAL

Report No. : TR01EN-2602130276 (2)

Issued To :

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POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2601291350	Received On	: 29/01/2026
Sample Name#	: Ground Water	Commenced On	: 29/01/2026
Sample Condition	: Good	Completed On	: 04/02/2026
Sample Details (if any)		Date of Report	: 13/02/2026
Sample Quantity#	: 5 Ltr		
Packaging Mode#	: Packed in bottles		
Batch No./QR Code#	: Sample from HP-2 Kapari Panchayat Bhawan	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Rahul Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Sample Collected by lab rep. Mr. Rahul on: 27.01.2026		
Test Report as per#	: IS 10500:2012	With Amendment No.(s)	: 01 to 04

Description: Clear Colorless Liquid

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Acceptable Limit	Permissible Limit
	Discipline : Chemical						
	Group : Water						
(I)	**General Parameters**						
1	Chromium(as Cr6+)	mg/l	UV-Spectrophotometer	IS 3025 (Part 52): 2003	BLQ(LOQ:0.01)		

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification, Sampling Procedure: SOP/ITC/EW/030.

REMARKS : See Note

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

Authorized Signatory(Microbiology)
Name : Deepika Heera
Discipline : Biological
Date : 13/02/2026

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 13/02/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2603170670 (1)**
NABL ULR No. : **TC1489626000008154F**

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No. : SR01EN-2602281305
Sample Name# : Ground Water
Sample Condition : Good
Sample Details (if any)
Sample Quantity# : 5 Ltr
Packaging Mode# : Packed in bottles
Batch No./QR Code# : Sample from HP-2 Kapari Panchayat Bhawan
Date of Manufacture# : NA
Sample Submission Type : Sampled by Lab Rep /Rahul Kumar Nishad
Customer Reference# : PO/22/05/2024
Any Other Information# : Sample Collected by lab rep. Mr. Rahul on: 24.02.2026
Test Report as per# : IS 10500:2012

Received On : 28/02/2026
Commenced On : 28/02/2026
Completed On : 06/03/2026
Date of Report : 17/03/2026
Grade# : NA
Date of Expiry# : NA
With Amendment No.(s) : 01 to 04

Description: Clear Colorless Liquid

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Acceptable Limit	Permissible Limit
	Discipline : Chemical						
	Group : Water						
(I)	**Organoleptic &Physical Parameter**						
1	pH Value	NA	pH Meter	IS: 3025 (Part-11): 2022	7.48	6.5-8.5	No relaxation
2	Odour	NA	Organoleptic	IS: 3025 (P-5)-2018	Agreeable	Agreeable	Agreeable
3	Turbidity	NTU	Turbidity Meter	IS 3025(Part-10): 2023	0.82	1 Max.	5 Max.
4	Taste	mg/l	Organoleptic	IS 3025(Part-8): 2023	Agreeable	Agreeable	Agreeable
5	Total Dissolved Solids	mg/l	Gravimetric	IS: 3025 (P-16): 2023	302	500 Max.	2000 Max.
6	Colour (True Colour)	Hazen	Visual Examination	IS 3025 (Part 4) : 2021	2	5 Max.	15 Max.
(II)	**Parameters Concerning Undesirable Substances in excess amount**						
1	Aluminium(as Al)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.003)	0.03 Max.	0.2 Max.
2	Anionic detergent(as	mg/l	UV-	IS 3025 (Part	BLQ(LOQ:0.05)	0.2 Max.	1.0 Max.

Authorized Signatory
Name : Deepika Heera
Discipline : Biological
Date : 17/03/2026

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 17/03/2026

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0172-2561543 customersupport@itclabs.com www.itclabs.com

TC - 14896

TEST REPORT

Test Report No. : TR01EN-2603170670 (1)
NABL ULR No. : TC1489626000008154F

	MBAS)		Spectrophotometer	68):2019			
3	Barium(as Ba)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.336	0.7 Max.	No relaxation
4	Boron(as B)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.5 Max.	2.4 Max.
5	Calcium(as Ca)	mg/l	Titration	IS: 3025 (Part 40):2024	56	75 Max.	200 Max.
6	Chloride(as Cl)	mg/l	Titration	IS: 3025 (P-32)-1988 (RA2019)	68	250 Max.	1000 Max.
7	Copper(as Cu)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.05 Max.	1.5 Max.
8	Fluoride(as F)	mg/l	Visual Examination	IS: 3025 (P-60)-2008 (RA 2019)	0.2	1.0 Max.	1.5 Max.
9	Free Residual Chlorine	mg/l	Titration	IS: 3025 (P-26): 2021	BLQ(LOQ:0.03)	0.2 Min.	1.0 Max.
10	Magnesium(as Mg)	mg/l	By Calculation	IS 3025 (Part 46): 2023	2.2	30 Max.	100 Max.
11	Manganese(as Mn)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.004	0.1 Max.	0.3 Max.
12	Nitrate(as NO3)	mg/l	UV-Spectrophotometer	APHA 24th Edition 2023, 4500 NO3, B	18.5	45 Max.	No Relaxation
13	Phenolic compounds(as C6H5OH)	mg/l	UV-Spectrophotometer	IS: 3025 (P-43/Sec-1)-2022	BLQ(LOQ:0.001)	0.001 Max.	0.002 Max.
14	Selenium(as Se)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.01 Max.	No Relaxation
15	Sulphate(as SO4)	mg/l	UV-Spectrophotometer	IS : 3025 (Part 24): Sec1:2022	53	200 Max.	400 Max.
16	Total Hardness(as CaCO3)	mg/l	Titration	IS: 3025 (Part 21)-2009 (RA 2023)	149	200 Max.	600 Max.
17	Zinc(as Zn)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.282	5 Max.	15 Max.
18	Total Alkalinity(as CaCO3)	mg/l	Titration	IS 3025(Part-23): 2023	54.7	200 Max.	600 Max.
19	Iron(as Fe)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.036	1.0 Max.	No Relaxation
(III)	**Parameters Concerning Toxic Substances**						
1	Cadmium(as Cd)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.003 Max.	No Relaxation
2	Cyanide(asCN)	mg/l	UV-	IS 3025 (Part-	BLQ(LOQ:0.01)	0.05 Max.	No Relaxation

Authorized Signatory
Name : Deepika Heera
Discipline : Biological
Date : 17/03/2026

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 17/03/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2603170670 (1)**

NABL ULR No. : **TC1489626000008154F**

			Spectrophotometer	27/Sec 1): 2021			
3	Lead(as Pb)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.01 Max.	No Relaxation
4	Mercury(as Hg)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.001)	0.001 Max.	No Relaxation
5	Molybdenum(as Mo)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.07 Max.	No Relaxation
6	Nickel(as Ni)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.02 Max.	No Relaxation
7	Total Arsenic(as As)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.01 Max.	No relaxation
	Discipline : Biological						
	Group : Water						
(IV)	**Microbiological Tests**						
1	*E.coli*	Per 100ml	Microbiological	IS 15185: 2016	Absent/100ml	Shall not be detectable in any 100 ml sample	No Relaxation
2	*Total Coliform*	Per 100ml	Microbiological	IS 15185: 2016	Absent/100ml	Shall not be detectable in any 100 ml sample	No Relaxation

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Sampling Procedure: SOP/ITC/EW/030.

REMARKS : See Note

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

Authorized Signatory
Name : Deepika Heera
Discipline : Biological
Date : 17/03/2026

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 17/03/2026

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TEST REPORT

ORIGINAL

Test Report No. : TR01EN-2603170670

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2602281305		
Sample Name#	: Ground Water	Received On	: 28/02/2026
Sample Condition	: Good	Commenced On	: 28/02/2026
Sample Details (if any)		Completed On	: 06/03/2026
Sample Quantity#	: 5 Ltr	Date of Report	: 17/03/2026
Packaging Mode#	: Packed in bottles		
Batch No./QR Code#	: Sample from HP-2 Kapari Panchayat Bhawan	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Rahul Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Sample Collected by lab rep. Mr. Rahul on: 24.02.2026		
Test Report as per#	: IS 10500:2012	With Amendment No.(s)	: 01 to 04

Description: Clear Colorless Liquid

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Acceptable Limit	Permissible Limit
	Discipline : Chemical						
	Group : Water						
(I)	**General Parameters**						
1	Chromium(as Cr6+)	mg/l	UV-Spectrophotometer	IS 3025 (Part 52): 2003	BLQ(LOQ:0.01)		

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Sampling Procedure: SOP/ITC/EW/030.

REMARKS : See Note

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

Authorized Signatory
Name : Deepika Heera
Discipline : Biological
Date : 17/03/2026

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 17/03/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2604130206 (1)**

NABL ULR No. : **TC1489626000010665F**

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No. : SR01EN-2603301308
Sample Name# : Ground Water
Sample Condition : Good

Sample Details (if any)

Sample Quantity# : 4 Ltr
Packaging Mode# : Packed in bottles
Batch No./QR Code# : Sample from HP-2 Kapari Panchayat Bhawan
Date of Manufacture# : NA
Sample Submission Type : Sampled by Lab Rep /Rahul Kumar Nishad
Customer Reference# : PO/22/05/2024
Any Other Information# : Sample Collected by lab rep. Mr. Rahul on: 27.03.2026
Test Report as per# : IS 10500:2012

Received On : 30/03/2026
Commenced On : 30/03/2026
Completed On : 03/04/2026
Date of Report : 13/04/2026

Grade# : NA
Date of Expiry# : NA

With Amendment No.(s) : 01 to 04

Description: Clear Colorless Liquid

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Acceptable Limit	Permissible Limit
	Discipline : Chemical						
	Group : Water						
(I)	**Organoleptic & Physical Parameter**						
1	pH Value	NA	pH Meter	IS: 3025 (Part-11): 2022	7.49	6.5-8.5	No relaxation
2	Odour	NA	Organoleptic	IS: 3025 (P-5)-2018	Agreeable	Agreeable	Agreeable
3	Turbidity	NTU	Turbidity Meter	IS 3025(Part-10): 2023	<0.5	1 Max.	5 Max.
4	Taste	mg/l	Organoleptic	IS 3025(Part-8): 2023	Agreeable	Agreeable	Agreeable
5	Total Dissolved Solids	mg/l	Gravimetric	IS: 3025 (P-16): 2023	316	500 Max.	2000 Max.
6	Colour (True Colour)	Hazen	Visual Examination	IS 3025 (Part 4) : 2021	2	5 Max.	15 Max.
(II)	**Parameters Concerning Undesirable Substances in excess amount**						
1	Aluminium(as Al)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.03 Max.	0.2 Max.
2	Anionic detergent(as	mg/l	UV-	IS 3025 (Part	BLQ(LOQ:0.05)	0.2 Max.	1.0 Max.

Authorized Signatory
Name : Deepika Heera
Discipline : Biological
Date : 13/04/2026

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 13/04/2026

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TC - 14896

TEST REPORT

Test Report No. : TR01EN-2604130206 (1)
NABL ULR No. : TC1489626000010665F

	MBAS)		Spectrophotometer	68):2019			
3	Barium(as Ba)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.391	0.7 Max.	No relaxation
4	Boron(as B)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.042	0.5 Max.	2.4 Max.
5	Calcium(as Ca)	mg/l	Titration	IS: 3025 (Part 40):2024	56	75 Max.	200 Max.
6	Chloride(as Cl)	mg/l	Titration	IS: 3025 (P-32)-1988 (RA2019)	72	250 Max.	1000 Max.
7	Copper(as Cu)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.012	0.05 Max.	1.5 Max.
8	Fluoride(as F)	mg/l	Visual Examination	IS: 3025 (P-60)-2008 (RA 2019)	0.2	1.0 Max.	1.5 Max.
9	Free Residual Chlorine	mg/l	Titration	IS: 3025 (P-26): 2021	BLQ(LOQ:0.03)	0.2 Min.	1.0 Max.
10	Magnesium(as Mg)	mg/l	By Calculation	IS 3025 (Part 46): 2023	2.5	30 Max.	100 Max.
11	Manganese(as Mn)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.1 Max.	0.3 Max.
12	Nitrate(as NO3)	mg/l	UV-Spectrophotometer	APHA 24th Edition 2023, 4500 NO3, B	19.6	45 Max.	No Relaxation
13	Phenolic compounds(as C6H5OH)	mg/l	UV-Spectrophotometer	IS: 3025 (P-43/Sec-1)-2022	BLQ(LOQ:0.001)	0.001 Max.	0.002 Max.
14	Selenium(as Se)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.01 Max.	No Relaxation
15	Sulphate(as SO4)	mg/l	UV-Spectrophotometer	IS : 3025 (Part 24): Sec1:2022	54.3	200 Max.	400 Max.
16	Total Hardness(as CaCO3)	mg/l	Titration	IS: 3025 (Part 21)-2009 (RA 2023)	150.5	200 Max.	600 Max.
17	Zinc(as Zn)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	0.046	5 Max.	15 Max.
18	Total Alkalinity(as CaCO3)	mg/l	Titration	IS 3025(Part-23): 2023	60	200 Max.	600 Max.
19	Iron(as Fe)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	1.0 Max.	No Relaxation
(III)	**Parameters Concerning Toxic Substances**						
1	Cadmium(as Cd)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.003 Max.	No Relaxation
2	Cyanide(asCN)	mg/l	UV-	IS 3025 (Part-	BLQ(LOQ:0.01)	0.05 Max.	No Relaxation

Authorized Signatory
Name : Deepika Heera
Discipline : Biological
Date : 13/04/2026

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 13/04/2026

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ilac-MRA TC - 14896

TEST REPORT

ORIGINAL

Test Report No. : **TR01EN-2604130206 (1)**
NABL ULR No. : **TC1489626000010665F**

			Spectrophotometer	27/Sec 1): 2021			
3	Lead(as Pb)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.01 Max.	No Relaxation
4	Mercury(as Hg)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.001)	0.001 Max.	No Relaxation
5	Molybdenum(as Mo)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.07 Max.	No Relaxation
6	Nickel(as Ni)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.02 Max.	No Relaxation
7	Total Arsenic(as As)	mg/l	ICPMS	IS 3025 (Part 65) : 2022	BLQ(LOQ:0.002)	0.01 Max.	No relaxation
	Discipline : Biological						
	Group : Water						
(IV)	**Microbiological Tests**						
1	*E.coli*	Per 100ml	Microbiological	IS 15185: 2016	Absent/100ml	Shall not be detectable in any 100 ml sample	No Relaxation
2	*Total Coliform*	Per 100ml	Microbiological	IS 15185: 2016	Absent/100ml	Shall not be detectable in any 100 ml sample	No Relaxation

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Sampling Procedure: SOP/ITC/EW/030.

REMARKS : See Note

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

Authorized Signatory
Name : Deepika Heera
Discipline : Biological
Date : 13/04/2026

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 13/04/2026

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TEST REPORT

Test Report No. : TR01EN-2604130206

Issued To :

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POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2603301308		
Sample Name#	: Ground Water	Received On	: 30/03/2026
Sample Condition	: Good	Commenced On	: 30/03/2026
Sample Details (if any)		Completed On	: 03/04/2026
Sample Quantity#	: 4 Ltr	Date of Report	: 13/04/2026
Packaging Mode#	: Packed in bottles		
Batch No./QR Code#	: Sample from HP-2 Kapari Panchayat Bhawan	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Rahul Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Sample Collected by lab rep. Mr. Rahul on: 27.03.2026		
Test Report as per#	: IS 10500:2012	With Amendment No.(s)	: 01 to 04

Description: Clear Colorless Liquid

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Acceptable Limit	Permissible Limit
	Discipline : Chemical						
	Group : Water						
(I)	**General Parameters**						
1	Chromium(as Cr6+)	mg/l	UV-Spectrophotometer	IS 3025 (Part 52): 2003	BLQ(LOQ:0.01)		

represents Customer Defined Fields

NOTE : NA- Not Applicable, LOQ- Limit of Quantification, BLQ- Below limit of Quantification. Sampling Procedure: SOP/ITC/EW/030.

REMARKS : See Note

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

Authorized Signatory
Name : Deepika Heera
Discipline : Biological
Date : 13/04/2026

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 13/04/2026

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Annuxure-5

Green belt development





Annexure - 6

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TEST REPORT

ORIGINAL

Report No. : TR01EN-2511200583

ULR No. : TC1489625000027007F

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2510281215	Received On	: 28/10/2025
Sample Name#	: Noise Monitoring Ambient	Commenced On	: 28/10/2025
Sample Condition	: Good	Completed On	: 31/10/2025
Sample Details (if any)		Date of Report	: 20/11/2025
Sample Quantity#	: NA		
Packaging Mode#	: NA		
Batch No./QR Code#	: NA	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Rahul Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Sample Collected by lab rep. on: 27.10.2025		
Test Report as per#	: EPA-1986, PCLS/02/2021		

S. No. Sampling Information:

(a)	Name of Sample	: Ambient Noise
(b)	Date of Monitoring	: 27-10-2025
(c)	Time of Monitoring	: Day & Night
(d)	Nature of Industry	: Thermal Power Plant
(e)	Purpose of Monitoring	: To assess the Noise level

Description: Noise Monitoring

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Specification
	Discipline : Chemical					
	Group : Atmospheric Pollution					
(I)	**Location Name**					
1	CHP area (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	53.8	Max. 75.0
2	CHP area (Nigh Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	43.8	Max. 70.0
3	Turbine Area (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	69.8	Max. 75.0
4	Turbine area (Night Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	65.6	Max. 70.0
5	Fire Station (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	53.9	Max. 75.0
6	Fire Station (Night Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	44.5	Max. 70.0

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 20/11/2025

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TC - 14896

TEST REPORT

ORIGINAL

Report No. : TR01EN-2511200583

ULR No. : TC1489625000027007F

7	Horticulture (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	52.4	Max. 75.0
8	Horticulture (Night Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	43.5	Max. 70.0
9	ITI College (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	49.6	Max. 75.0
10	ITI College (Night Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	42.3	Max. 70.0

represents Customer Defined Fields

NOTE : NA- Not Applicable, Requirements as per EPA ACT 1986/PCLS/02/2021, Sampling Procedure : SOP/ITC/EW/056.Sample Collected by lab rep. on 27-10-2025. Day Time - 06 :00 Hrs To 22 :00 Hrs, Night Time - 22 :00 Hrs To 06 :00 Hrs.

REMARKS : See Note

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

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 20/11/2025

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TEST REPORT

ORIGINAL

Report No. : TR01EN-2512160293

ULR No. : TC1489625000029298F

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No. : SR01EN-2511290916
Sample Name# : Noise Monitoring Ambient (for 5 Locations)
Sample Condition : Good

Sample Details (if any)

Sample Quantity# : NA
Packaging Mode# : NA
Batch No./QR Code# : NA
Date of Manufacture# : NA
Sample Submission Type : Sampled by Lab Rep /Rahul Kumar Nishad
Customer Reference# : PO/22/05/2024
Any Other Information# : Sample Collected by lab rep. on: 28.11.2025
Test Report as per# : EPA-1986, PCLS/02/2021

Received On : 29/11/2025
Commenced On : 29/11/2025
Completed On : 01/12/2025
Date of Report : 16/12/2025

Grade# : NA
Date of Expiry# : NA

S. No. Sampling Information:

(a)	Name of Sample	: Ambient Air
(b)	Date of Monitoring	: 28-11-2025
(c)	Time of Monitoring	: Day & Night
(d)	Nature of Industry	: Thermal Power Plant
(e)	Purpose of Monitoring	: To assess the Noise level

Description: Noise Monitoring

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Specification
	Discipline : Chemical					
	Group : Atmospheric Pollution					
(I)	**Location Name**					
1	CHP area (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	54.2	Max. 75.0
2	CHP area (Nigh Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	44.5	Max. 70.0
3	Turbine Area (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	66.5	Max. 75.0
4	Turbine area (Night Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	62.5	Max. 70.0
5	Fire Station (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	54.6	Max. 75.0
6	Fire Station (Night Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	43.1	Max. 70.0

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 16/12/2025

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0172-2561543 customersupport@itclabs.com www.itclabs.com

TC - 14896

TEST REPORT

ORIGINAL

Report No. : TR01EN-2512160293
ULR No. : TC1489625000029298F

7	Horticulture (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	54.1	Max. 75.0
8	Horticulture (Night Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	44.5	Max. 70.0
9	ITI College (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	49.4	Max. 75.0
10	ITI College (Night Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	41.6	Max. 70.0

represents Customer Defined Fields

NOTE : NA- Not Applicable, Requirements as per EPA ACT 1986/PCLS/02/2021, Sampling Procedure : SOP/ITC/EW/056.Sample Collected by lab rep. on 28-11-2025. Day Time - 06 :00 Hrs To 22 :00 Hrs, Night Time - 22 :00 Hrs To 06 :00 Hrs.

REMARKS : See Note

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

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 16/12/2025

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ilac-MRA — TC - 14896

TEST REPORT

Report No. : TR01EN-2601130548

ULR No. : TC1489626000001463F

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No. : SR01EN-2601050045
Sample Name# : Noise Monitoring Ambient (for 5 Locations)
Sample Condition : Good

Sample Details (if any)

Sample Quantity# : NA
Packaging Mode# : NA
Batch No./QR Code# : NA
Date of Manufacture# : NA
Sample Submission Type : Sampled by Lab Rep /Rahul Kumar Nishad
Customer Reference# : PO/22/05/2024
Any Other Information# : Sample Collected by lab rep. on: 30.12.2025
Test Report as per# : EPA-1986, PCLS/02/2021

Received On : 05/01/2026
Commenced On : 05/01/2026
Completed On : 07/01/2026
Date of Report : 13/01/2026

Grade# : NA
Date of Expiry# : NA

S. No. Sampling Information:

(a) Name of Sample : Ambient Noise
(b) Date of Monitoring : 30-12-2025
(c) Time of Monitoring : Day & Night
(d) Nature of Industry : Thermal Power Plant
(e) Purpose of Monitoring : To assess the Noise level

Description: Ambient Noise Monitoring

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Specification
	Discipline : Chemical					
	Group : Atmospheric Pollution					
(I)	**Location Name**					
1	CHP area (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	54.8	Max. 75.0
2	CHP area (Nigh Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	43.7	Max. 70.0
3	Turbine Area (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	69.4	Max. 75.0
4	Turbine area (Night Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	65.2	Max. 70.0
5	Fire Station (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	52.4	Max. 75.0
6	Fire Station (Night Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	42.4	Max. 70.0

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 13/01/2026

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TC - 14896

TEST REPORT

Report No. : TR01EN-2601130548
ULR No. : TC1489626000001463F

7	Horticulture (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	54.2	Max. 75.0
8	Horticulture (Night Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	43.0	Max. 70.0
9	ITI College (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	49.9	Max. 75.0
10	ITI College (Night Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	41.4	Max. 70.0

represents Customer Defined Fields

NOTE : NA- Not Applicable, Requirements as per EPA ACT 1986/PCLS/02/2021, Sampling Procedure : SOP/ITC/EW/056.Sample Collected by lab rep. on 30-12-2025. Day Time - 06 :00 Hrs To 22 :00 Hrs, Night Time - 22 :00 Hrs To 06 :00 Hrs.

REMARKS : See Note

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

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 13/01/2026

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TEST REPORT

Report No. : TR01EN-2602160336

ULR No. : TC1489626000004522F

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No. : SR01EN-2602030074
Sample Name# : Noise Monitoring Ambient (for 5 Locations)
Sample Condition : Good

Sample Details (if any)

Sample Quantity# : NA
Packaging Mode# : NA
Batch No./QR Code# : NA
Date of Manufacture# : NA
Sample Submission Type : Sampled by Lab Rep /Rahul Kumar Nishad
Customer Reference# : PO/22/05/2024
Any Other Information# : Date of Sampling: 29.01.2026
Test Report as per# : EPA-1986, PCLS/02/2021

Received On : 03/02/2026
Commenced On : 03/02/2026
Completed On : 04/02/2026
Date of Report : 16/02/2026

Grade# : NA
Date of Expiry# : NA

S. No. Sampling Information:

(a)	Name of Sample	: Ambient Noise
(b)	Date of Monitoring	: 29-01-2026
(c)	Time of Monitoring	: Day & Night
(d)	Nature of Industry	: Thermal Power Plant
(e)	Purpose of Monitoring	: To assess the Noise level

Description: Ambient Noise Monitoring

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**Location Name**				
1	CHP area (Day Time)	Leq dB (A)	IS:9989(RA 2023)	54.2	Max. 75.0
2	CHP area (Nigh Time)	Leq dB (A)	IS:9989(RA 2023)	44.6	Max. 70.0
3	Turbine Area (Day Time)	Leq dB (A)	IS:9989(RA 2023)	69.9	Max. 75.0
4	Turbine area (Night Time)	Leq dB (A)	IS:9989(RA 2023)	65.2	Max. 70.0
5	Fire Station (Day Time)	Leq dB (A)	IS:9989(RA 2023)	49.9	Max. 75.0
6	Fire Station (Night Time)	Leq dB (A)	IS:9989(RA 2023)	41.5	Max. 70.0
7	Horticulture (Day Time)	Leq dB (A)	IS:9989(RA 2023)	52.7	Max. 75.0
8	Horticulture (Night Time)	Leq dB (A)	IS:9989(RA 2023)	43.1	Max. 70.0
9	ITI College (Day Time)	Leq dB (A)	IS:9989(RA 2023)	48.6	Max. 75.0
10	ITI College (Night Time)	Leq dB (A)	IS:9989(RA 2023)	42.3	Max. 70.0

represents Customer Defined Fields

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 16/02/2026

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TC - 14896

TEST REPORT

Report No. : TR01EN-2602160336

ULR No. : TC1489626000004522F

NOTE : NA- Not Applicable, Requirements as per EPA ACT 1986/PCLS/02/2021, Sampling Procedure : SOP/ITC/EW/056.Sample Collected by lab rep. on 29-01-2026. Day Time - 06 :00 Hrs To 22 :00 Hrs, Night Time - 22 :00 Hrs To 06 :00 Hrs.

REMARKS : See Note

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

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 16/02/2026

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TEST REPORT

Test Report No. : **TR01EN-2603170675**

NABL ULR No. : **TC1489626000008169F**

Issued To :

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POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No. : SR01EN-2602281225
Sample Name# : Noise Monitoring Ambient
Sample Condition : Good

Sample Details (if any)

Sample Quantity# : NA
Packaging Mode# : NA
Batch No./QR Code# : NA
Date of Manufacture# : NA
Sample Submission Type : Sampled by Lab Rep /Rahul Kumar Nishad
Customer Reference# : PO/22/05/2024
Any Other Information# : Date of Sampling: 24.02.2026
Test Report as per# : EPA-1986, PCLS/02/2021

Received On : 28/02/2026
Commenced On : 28/02/2026
Completed On : 05/03/2026
Date of Report : 17/03/2026

Grade# : NA
Date of Expiry# : NA

S. No. Sampling Information:

(a)	Name of Sample	: Ambient Noise
(b)	Date of Monitoring	: 24-02-2026
(c)	Time of Monitoring	: Day & Night
(d)	Nature of Industry	: Thermal Power Plant
(e)	Purpose of Monitoring	: To assess the Noise level

Description: Ambient Noise Monitoring

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Specification
	Discipline : Chemical					
	Group : Atmospheric Pollution					
(I)	**Location Name**					
1	CHP area (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	54.7	Max. 75.0
2	CHP area (Nigh Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	44.1	Max. 70.0
3	Turbine Area (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	68.9	Max. 75.0
4	Turbine area (Night Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	63.8	Max. 70.0
5	Fire Station (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	54.3	Max. 75.0
6	Fire Station (Night Time)	Leq dB (A)	Noise Meter	IS:9989(RA	43.8	Max. 70.0

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 17/03/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2603170675**
NABL ULR No. : **TC1489626000008169F**

				2023)		
7	Horticulture (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	54.0	Max. 75.0
8	Horticulture (Night Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	44.2	Max. 70.0
9	ITI College (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	46.6	Max. 75.0
10	ITI College (Night Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	42.2	Max. 70.0

represents Customer Defined Fields

NOTE : NA- Not Applicable, Requirements as per EPA ACT 1986/PCLS/02/2021, Sampling Procedure : SOP/ITC/EW/056.Sample Collected by lab rep. on 24-02-2026. Day Time - 06 :00 Hrs To 22 :00 Hrs, Night Time - 22 :00 Hrs To 06 :00 Hrs.

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 17/03/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2604130269**

NABL ULR No. : **TC1489626000010746F**

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2603301278	Received On	: 30/03/2026
Sample Name#	: Noise Monitoring Ambient (for 5 Locations)	Commenced On	: 30/03/2026
Sample Condition	: Good	Completed On	: 01/04/2026
Sample Details (if any)		Date of Report	: 13/04/2026
Sample Quantity#	: NA		
Packaging Mode#	: NA		
Batch No./QR Code#	: NA	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Rahul Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 27.03.2026		
Test Report as per#	: EPA-1986, PCLS/02/2021		

S. No. Sampling Information:		
(a)	Name of Sample	: Ambient Noise
(b)	Date of Monitoring	: 27-03-2026
(c)	Time of Monitoring	: Day & Night
(d)	Nature of Industry	: Thermal Power Plant
(e)	Purpose of Monitoring	: To assess the Noise Level

Description: Noise Monitoring

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Specification
	Discipline : Chemical					
	Group : Atmospheric Pollution					
(I)	**Location Name**					
1	CHP area (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	54.2	Max. 75.0
2	CHP area (Nigh Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	44.5	Max. 70.0
3	Turbine Area (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	71.5	Max. 75.0
4	Turbine area (Night Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	67.5	Max. 70.0
5	Fire Station (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	52.7	Max. 75.0
6	Fire Station (Night Time)	Leq dB (A)	Noise Meter	IS:9989(RA	42.1	Max. 70.0

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 13/04/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2604130269**
NABL ULR No. : **TC1489626000010746F**

				2023)		
7	Horticulture (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	52.7	Max. 75.0
8	Horticulture (Night Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	43.0	Max. 70.0
9	ITI College (Day Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	49.6	Max. 75.0
10	ITI College (Night Time)	Leq dB (A)	Noise Meter	IS:9989(RA 2023)	40.6	Max. 70.0

represents Customer Defined Fields

NOTE : NA- Not Applicable, Requirements as per EPA ACT 1986/PCLS/02/2021, Sampling Procedure : SOP/ITC/EW/056.Sample Collected by lab rep. on 27-03-2026. Day Time - 06 :00 Hrs To 22 :00 Hrs, Night Time - 22 :00 Hrs To 06 :00 Hrs.

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 13/04/2026

Disclaimer :

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Annexure-7

Interstellar Testing Centre Pvt. Ltd.

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TC - 14896

TEST REPORT

ORIGINAL

Report No. : TR01EN-2511200594
ULR No. : TC1489625000027060F

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2510080362	Received On	: 08/10/2025
Sample Name#	: Ambient Air	Commenced On	: 08/10/2025
Sample Condition	: Good	Completed On	: 15/10/2025
Sample Details (if any)		Date of Report	: 20/11/2025
Sample Quantity#	: 2 FP, 2x30ml, 2x10ml		
Packaging Mode#	: Packed in poly pack & in vials		
Batch No./QR Code#	: Date of Sampling: 06.10.2025, Location: CHP Area	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Ramesh Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 06.10.2025, Location: CHP Area		
Test Report as per#	: NAAQS 2009		

S. No. Sampling Information:

(a)	Purpose of Monitoring	: To assess the Pollution level
(b)	Location of Sampling Point	: CHP Area
(c)	Date of Monitoring	: 06-10-2025
(d)	Duration of Monitoring , minutes	: 1440
(e)	Avg. Flow Rate of Sampling , m3/min	: 1.26
(f)	Volume of air sampled , m3	: 1814.40
(g)	Avg. Ambient Temperature , °C	: 30
(h)	Time of Monitoring	: 06:11 hrs

Description: Ambient Air Quality Monitoring

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Specification
	Discipline : Chemical					
	Group : Atmospheric Pollution					
(I)	**Ambient Air Quality Parameters(Time weighted Avg- 24 Hours)**					
1	Sulphur Dioxide(SO2)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-2): 2017	10	80 Max
2	Nitrogen Dioxide(NO2)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-6): 2017	18	80 Max
3	Particulate Matter (PM10)	µg/m3	Gravimetric	IS: 5182 (P-23): 2017	63	100 Max
4	Particulate matter (PM 2.5)	µg/m3	Gravimetric	IS: 5182 (P-24)-2019	38	60 Max

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 20/11/2025

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TC - 14896

TEST REPORT

ORIGINAL

Report No. : TR01EN-2511200594
ULR No. : TC1489625000027060F

5	Lead(As Pb)	µg/m3	ICPOES	STP/ITC/EW/002	BLQ(LOQ:0.1)	1.0 Max
6	Ammonia(NH3)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-25): 2018	29	400 Max
(II)	**Ambient Air Quality Parameters(Time weighted Avg- 8 Hours)**					
1	Ozone(O3)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-9): 2019	24	100 Max.
2	Carbon Monoxide(CO)	mg/m^3	GC	IS: 5182 (P-10): 2019	1.3	2 Max.
(III)	**Ambient Air Quality Parameters(Time weighted Avg- Annual*)**					
1	Benzene(C6H6)	µg/m3	GC	IS: 5182 (P-11): 2017	BLQ(LOQ:1.0)	5 Max
2	Benzo(a) Pyrene Particulate Phase only	ng/m3	GCMSMS	IS: 5182 (P-12): 2019	BLQ(LOQ:0.5)	1 Max
3	Arsenic(as As)	ng/m3	ICPOES	STP/ITC/EW/002	BLQ(LOQ:1.0)	6 Max.
4	Nickel(As Ni)	ng/m3	ICPOES	STP/ITC/EW/002	BLQ(LOQ:1.0)	20 Max.

represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirement as per NAAQS 2009. Sampling Procedure: SOP/ITC/EW/056. Sample Collected by lab rep. on 06-10-2025.

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

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

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 20/11/2025

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TC - 14896

TEST REPORT

ORIGINAL

Report No. : TR01EN-2512160341

ULR No. : TC1489625000029346F

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2511110395	Received On	: 11/11/2025
Sample Name#	: Ambient Air	Commenced On	: 11/11/2025
Sample Condition	: Good	Completed On	: 19/11/2025
Sample Details (if any)		Date of Report	: 16/12/2025
Sample Quantity#	: 2 FP, 2x30ml, 2x10ml		
Packaging Mode#	: Packed in poly pack & in vials		
Batch No./QR Code#	: Date of Sampling: 03.11.2025, Location: CHP Area	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Ramesh Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 03.11.2025, Location: CHP Area		
Test Report as per#	: NAAQS 2009		

S. No. Sampling Information:

(a)	Purpose of Monitoring	: To assess the Pollution level
(b)	Location of Sampling Point	: CHP Area
(c)	Date of Monitoring	: 03-11-2025
(d)	Duration of Monitoring , minutes	: 1440
(e)	Avg. Flow Rate of Sampling , m3/min	: 1.26
(f)	Volume of air sampled , m3	: 1814.40
(g)	Avg. Ambient Temperature , °C	: 24
(h)	Time of Monitoring	: 09:10 hrs

Description: Ambient Air Quality Monitoring

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Specification
	Discipline : Chemical					
	Group : Atmospheric Pollution					
(I)	**Ambient Air Quality Parameters(Time weighted Avg- 24 Hours)**					
1	Sulphur Dioxide(SO2)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-2): 2017	13	80 Max
2	Nitrogen Dioxide(NO2)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-6): 2017	19	80 Max
3	Particulate Matter (PM10)	µg/m3	Gravimetric	IS: 5182 (P-23): 2017	87	100 Max
4	Particulate matter (PM 2.5)	µg/m3	Gravimetric	IS: 5182 (P-24)-2019	40	60 Max

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 16/12/2025

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ilac-MRA
TC - 14896

TEST REPORT

ORIGINAL

Report No. : TR01EN-2512160341
ULR No. : TC1489625000029346F

5	Lead(As Pb)	µg/m3	ICPOES	STP/ITC/EW/002	BLQ(LOQ:0.1)	1.0 Max
6	Ammonia(NH3)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-25): 2018	26	400 Max
(II)	**Ambient Air Quality Parameters(Time weighted Avg- 8 Hours)**					
1	Ozone(O3)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-9): 2019	26	100 Max.
2	Carbon Monoxide(CO)	mg/m^3	GC	IS: 5182 (P-10): 2019	1.2	2 Max.
(III)	**Ambient Air Quality Parameters(Time weighted Avg- Annual*)**					
1	Benzene(C6H6)	µg/m3	GC	IS: 5182 (P-11): 2017	BLQ(LOQ:1.0)	5 Max
2	Benzo(a) Pyrene Particulate Phase only	ng/m3	GCMSMS	IS: 5182 (P-12): 2019	BLQ(LOQ:0.5)	1 Max
3	Arsenic(as As)	ng/m3	ICPOES	STP/ITC/EW/002	BLQ(LOQ:1.0)	6 Max.
4	Nickel(As Ni)	ng/m3	ICPOES	STP/ITC/EW/002	BLQ(LOQ:1.0)	20 Max.

represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirement as per NAAQS 2009. Sampling Procedure: SOP/ITC/EW/056.Sample Collected by lab rep. on 03-11-2025..

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

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

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 16/12/2025

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TC - 14896

TEST REPORT

ORIGINAL

Report No. : TR01EN-2601150662

ULR No. : TC1489626000001593F

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2512080271	Received On	: 08/12/2025
Sample Name#	: Ambient Air	Commenced On	: 08/12/2025
Sample Condition	: Good	Completed On	: 15/12/2025
Sample Details (if any)		Date of Report	: 15/01/2026
Sample Quantity#	: 2 FP, 2x30ml, 2x10ml		
Packaging Mode#	: Packed in poly pack & in vials		
Batch No./QR Code#	: Date of Sampling: 01.12.2025, Location: CHP Area	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Ramesh Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 01.12.2025, Location: CHP Area		
Test Report as per#	: NAAQS 2009		

S. No. Sampling Information:

(a)	Purpose of Monitoring	: To assess the Pollution level
(b)	Location of Sampling Point	: CHP Area
(c)	Date of Monitoring	: 01-12-2025
(d)	Duration of Monitoring , minutes	: 1440
(e)	Avg. Flow Rate of Sampling , m3/min	: 1.28
(f)	Volume of air sampled , m3	: 1843.20
(g)	Avg. Ambient Temperature , °C	: 20
(h)	Time of Monitoring	: 06:20 hrs

Description: Ambient Air Quality Monitoring

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Specification
	Discipline : Chemical					
	Group : Atmospheric Pollution					
(I)	**Ambient Air Quality Parameters(Time weighted Avg- 24 Hours)**					
1	Sulphur Dioxide(SO2)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-2): 2017	12	80 Max
2	Nitrogen Dioxide(NO2)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-6): 2017	19	80 Max
3	Particulate Matter (PM10)	µg/m3	Gravimetric	IS: 5182 (P-23): 2017	90	100 Max
4	Particulate matter (PM 2.5)	µg/m3	Gravimetric	IS: 5182 (P-24)-2019	46	60 Max

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 15/01/2026

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TEST REPORT

ORIGINAL

Report No. : TR01EN-2601150662
ULR No. : TC1489626000001593F

5	Lead(As Pb)	µg/m3	ICPOES	STP/ITC/EW/002	BLQ(LOQ:0.1)	1.0 Max
6	Ammonia(NH3)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-25): 2018	29	400 Max
(II)	**Ambient Air Quality Parameters(Time weighted Avg- 8 Hours)**					
1	Ozone(O3)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-9): 2019	24	100 Max.
2	Carbon Monoxide(CO)	mg/m^3	GC	IS: 5182 (P-10): 2019	1.3	2 Max.
(III)	**Ambient Air Quality Parameters(Time weighted Avg- Annual*)**					
1	Benzene(C6H6)	µg/m3	GC	IS: 5182 (P-11): 2017	BLQ(LOQ:1.0)	5 Max
2	Benzo(a) Pyrene Particulate Phase only	ng/m3	GCMSMS	IS: 5182 (P-12): 2019	BLQ(LOQ:0.5)	1 Max
3	Arsenic(as As)	ng/m3	ICPOES	STP/ITC/EW/002	BLQ(LOQ:1.0)	6 Max.
4	Nickel(As Ni)	ng/m3	ICPOES	STP/ITC/EW/002	BLQ(LOQ:1.0)	20 Max.

represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirement as per NAAQS 2009. Sampling Procedure: SOP/ITC/EW/056. Sample Collected by lab rep. on 01-12-2025.

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

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

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 15/01/2026

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TC - 14896

TEST REPORT

ORIGINAL

Report No. : TR01EN-2602160391

ULR No. : TC1489626000004577F

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2601160505	Received On	: 16/01/2026
Sample Name#	: Ambient Air	Commenced On	: 16/01/2026
Sample Condition	: Good	Completed On	: 21/01/2026
Sample Details (if any)		Date of Report	: 16/02/2026
Sample Quantity#	: 2 FP, 2x30ml, 2x10ml		
Packaging Mode#	: Packed in poly pack & in vials		
Batch No./QR Code#	: Date of Sampling: 01.01.2026, Location: CHP Area	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Ramesh Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 01.01.2026, Location: CHP Area		
Test Report as per#	: NAAQS 2009		

S. No. Sampling Information:

(a)	Purpose of Monitoring	: To assess the Pollution level
(b)	Location of Sampling Point	: CHP Area
(c)	Date of Monitoring	: 01-01-2026
(d)	Duration of Monitoring , minutes	: 1440
(e)	Avg. Flow Rate of Sampling , m3/min	: 1.26
(f)	Volume of air sampled , m3	: 1814.40
(g)	Avg. Ambient Temperature , °C	: 12
(h)	Time of Monitoring	: 08:00 hrs

Description: Ambient Air Quality Monitoring

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Specification
	Discipline : Chemical					
	Group : Atmospheric Pollution					
(I)	**Ambient Air Quality Parameters(Time weighted Avg- 24 Hours)**					
1	Sulphur Dioxide(SO2)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-2): 2017	12	80 Max
2	Nitrogen Dioxide(NO2)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-6): 2017	18	80 Max
3	Particulate Matter (PM10)	µg/m3	Gravimetric	IS: 5182 (P-23): 2017	90	100 Max
4	Particulate matter (PM 2.5)	µg/m3	Gravimetric	IS: 5182 (P-24)-2019	45	60 Max

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 16/02/2026

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TC - 14896

TEST REPORT

Report No. : TR01EN-2602160391

ULR No. : TC1489626000004577F

5	Lead(As Pb)	µg/m3	ICPOES	STP/ITC/EW/002	BLQ(LOQ:0.1)	1.0 Max
6	Ammonia(NH3)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-25): 2018	31	400 Max
(II)	**Ambient Air Quality Parameters(Time weighted Avg- 8 Hours)**					
1	Ozone(O3)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-9): 2019	25	100 Max.
2	Carbon Monoxide(CO)	mg/m^3	GC	IS: 5182 (P-10): 2019	1.3	2 Max.
(III)	**Ambient Air Quality Parameters(Time weighted Avg- Annual*)**					
1	Benzene(C6H6)	µg/m3	GC	IS: 5182 (P-11): 2017	BLQ(LOQ:1.0)	5 Max
2	Benzo(a) Pyrene Particulate Phase only	ng/m3	GCMSMS	IS: 5182 (P-12): 2019	BLQ(LOQ:0.5)	1 Max
3	Arsenic(as As)	ng/m3	ICPOES	STP/ITC/EW/002	BLQ(LOQ:1.0)	6 Max.
4	Nickel(As Ni)	ng/m3	ICPOES	STP/ITC/EW/002	BLQ(LOQ:1.0)	20 Max.

represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirement as per NAAQS 2009. Sampling Procedure: SOP/ITC/EW/056. Sample Collected by lab rep. on 01-01-2026.

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

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

Authorized Signatory
Name : Vikrant Saini
Discipline : Chemical
Date : 16/02/2026

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TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2603190821**
NABL ULR No. : **TC1489626000008456F**

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2602110313	Received On	: 11/02/2026
Sample Name#	: Ambient Air	Commenced On	: 11/02/2026
Sample Condition	: Good	Completed On	: 19/02/2026
Sample Details (if any)		Date of Report	: 19/03/2026
Sample Quantity#	: 2 FP, 2x30ml, 2x10ml		
Packaging Mode#	: Packed in poly pack & in vials		
Batch No./QR Code#	: Date of Sampling: 02.02.2026, Location: CHP Area	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Submitted /Ramesh Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 02.02.2026, Location: CHP Area		
Test Report as per#	: NAAQS 2009		

S. No. Sampling Information:

(a)	Purpose of Monitoring	: To assess the Pollution Level
(b)	Location of Sampling Point	: CHP Area
(c)	Date of Monitoring	: 02-02-2026
(d)	Duration of Monitoring , minutes	: 1440
(e)	Avg. Flow Rate of Sampling , m3/min	: 1.26
(f)	Volume of air sampled , m3	: 1814.40
(g)	Avg. Ambient Temperature , °C	: 25
(h)	Time of Monitoring	: 08:00 hrs

Description: Ambient Air Quality Monitoring

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Specification
	Discipline : Chemical					
	Group : Atmospheric Pollution					
(I)	**Ambient Air Quality Parameters(Time weighted Avg- 24 Hours)**					
1	Sulphur Dioxide(SO2)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-2): 2017	6	80 Max
2	Nitrogen Dioxide(NO2)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-6): 2017	18	80 Max
3	Particulate Matter (PM10)	µg/m3	Gravimetric	IS: 5182 (P-23): 2017	92	100 Max

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 19/03/2026

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TC - 14896

TEST REPORT

Test Report No. : TR01EN-2603190821

NABL ULR No. : TC1489626000008456F

4	Particulate matter (PM 2.5)	µg/m3	Gravimetric	IS: 5182 (P-24)-2019	48	60 Max
5	Lead(As Pb)	µg/m3	ICPOES	STP/ITC/EW/002	BLQ(LOQ:0.1)	1.0 Max
6	Ammonia(NH3)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-25): 2018	29	400 Max
(II)	**Ambient Air Quality Parameters(Time weighted Avg- 8 Hours)**					
1	Ozone(O3)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-9): 2019	22	100 Max.
2	Carbon Monoxide(CO)	mg/m^3	GC	IS: 5182 (P-10): 2019	1.2	2 Max.
(III)	**Ambient Air Quality Parameters(Time weighted Avg- Annual*)**					
1	Benzene(C6H6)	µg/m3	GC	IS: 5182 (P-11): 2017	BLQ(LOQ:1.0)	5 Max
2	Benzo(a) Pyrene Particulate Phase only	ng/m3	GCMSMS	IS: 5182 (P-12): 2019	BLQ(LOQ:0.5)	1 Max
3	Arsenic(as As)	ng/m3	ICPOES	STP/ITC/EW/002	BLQ(LOQ:1.0)	6 Max.
4	Nickel(As Ni)	ng/m3	ICPOES	STP/ITC/EW/002	BLQ(LOQ:1.0)	20 Max.

represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirement as per NAAQS 2009. Sampling Procedure: SOP/ITC/EW/056. Sample Collected by lab rep. on 02-02-2026

REMARKS : See Note

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 19/03/2026

Disclaimer :

- The report is only for the sample tested. • The test report shall not be reproduced except in full without the written approval of the laboratory. • If samples not consumed during analysis, it will be stored and retain as per company policy. • Samples not drawn by us unless otherwise stated.
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Assuring Integrity, Trust & Confidence
(Not affiliated with or a part of ITC Limited)

Interstellar Testing Centre Pvt. Ltd.

(A Group Company of Qualitek Labs Limited)
Plot No. 86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)
0172-2561543 customersupport@itclabs.com www.itclabs.com

TC - 14896

TEST REPORT

Test Report No. : **TR01EN-2604140344**
NABL ULR No. : **TC1489626000010966F**

Issued To :

M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.
POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108
Prayagraj, 212108
Uttar Pradesh, India

Sample Registration No.	: SR01EN-2603070187	Received On	: 07/03/2026
Sample Name#	: Ambient Air	Commenced On	: 07/03/2026
Sample Condition	: Good	Completed On	: 13/03/2026
Sample Details (if any)		Date of Report	: 14/04/2026
Sample Quantity#	: 2 FP, 2x30ml, 2x10ml		
Packaging Mode#	: Packed in poly pack & in vials		
Batch No./QR Code#	: Date of Sampling: 02.03.2026, Location: CHP Area	Grade#	: NA
Date of Manufacture#	: NA	Date of Expiry#	: NA
Sample Submission Type	: Sampled by Lab Rep /Ramesh Kumar Nishad		
Customer Reference#	: PO/22/05/2024		
Any Other Information#	: Date of Sampling: 02.03.2026, Location: CHP Area		
Test Report as per#	: NAAQS 2009		

S. No. Sampling Information:

(a)	Purpose of Monitoring	: To assess the Pollution Level
(b)	Location of Sampling Point	: CHP Area
(c)	Date of Monitoring	: 02-03-2026
(d)	Duration of Monitoring , minutes	: 1440
(e)	Avg. Flow Rate of Sampling , m3/min	: 1.26
(f)	Volume of air sampled , m3	: 1814.40
(g)	Avg. Ambient Temperature , °C	: 30
(h)	Time of Monitoring	: 07:00 hrs

Description: Ambient Air Quality Monitoring

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Specification
	Discipline : Chemical					
	Group : Atmospheric Pollution					
(I)	**Ambient Air Quality Parameters(Time weighted Avg- 24 Hours)**					
1	Sulphur Dioxide(SO2)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-2): 2017	10	80 Max
2	Nitrogen Dioxide(NO2)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-6): 2017	22	80 Max
3	Particulate Matter (PM10)	µg/m3	Gravimetric	IS: 5182 (P-23): 2017	82	100 Max

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 14/04/2026

Disclaimer :

- The report is only for the sample tested. • The test report shall not be reproduced except in full without the written approval of the laboratory. • If samples not consumed during analysis, it will be stored and retain as per company policy. • Samples not drawn by us unless otherwise stated.
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(A Group Company of Qualitek Labs Limited)
Plot No. 86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)
0172-2561543 customersupport@itclabs.com www.itclabs.com

TC - 14896

TEST REPORT

Test Report No. : TR01EN-2604140344
NABL ULR No. : TC1489626000010966F

4	Particulate matter (PM 2.5)	µg/m3	Gravimetric	IS: 5182 (P-24)-2019	28	60 Max
5	Lead(As Pb)	µg/m3	ICPOES	STP/ITC/EW/002	BLQ(LOQ:0.1)	1.0 Max
6	Ammonia(NH3)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-25): 2018	34	400 Max
(II)	**Ambient Air Quality Parameters(Time weighted Avg- 8 Hours)**					
1	Ozone(O3)	µg/m3	UV-Spectrophotometer	IS: 5182 (P-9): 2019	22	100 Max.
2	Carbon Monoxide(CO)	mg/m^3	GC	IS: 5182 (P-10): 2019	1.4	2 Max.
(III)	**Ambient Air Quality Parameters(Time weighted Avg- Annual*)**					
1	Benzene(C6H6)	µg/m3	GC	IS: 5182 (P-11): 2017	BLQ(LOQ:1.0)	5 Max
2	Benzo(a) Pyrene Particulate Phase only	ng/m3	GCMSMS	IS: 5182 (P-12): 2019	BLQ(LOQ:0.5)	1 Max
3	Arsenic(as As)	ng/m3	ICPOES	STP/ITC/EW/002	BLQ(LOQ:1.0)	6 Max.
4	Nickel(As Ni)	ng/m3	ICPOES	STP/ITC/EW/002	BLQ(LOQ:1.0)	20 Max.

represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirement as per NAAQS 2009. Sampling Procedure: SOP/ITC/EW/056. Sample Collected by lab rep. on 02-03-2026.

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

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

Authorised by
Name : Vikrant Saini
Discipline : Chemical
Date : 14/04/2026

Disclaimer :

- The report is only for the sample tested. • The test report shall not be reproduced except in full without the written approval of the laboratory. • If samples not consumed during analysis, it will be stored and retain as per company policy. • Samples not drawn by us unless otherwise stated.
- Total liability of ITC Labs is limited to the invoiced amount. • Legal disputes are subjected to Panchkula Jurisdiction only. • Test report in full or parts shall not be used for promotional or publicity purposes • "We are Not a part of or associated with ITC Limited".

Annexure - 8

PPGCL CSR Budget FY 25-26			
Theme	Project	**Approved Budget (in Lakhs)-Revised**	**Expenditure (in Lakhs) till 31st March 2026**
EDUCATION	School Grant	99.58	99.58
	DAV School - School Renovation Infrastructure Work	185.77	185.77
	Sub Total	**285.35**	**285.35**
EMPLOYABILITY & EMPLOYMENT	Youth skilling project (Green Jobs Skilling) through TPSDI	2.53	2.53
	Youth skilling project in partnership with NSDC	0	0
	Sub Total	**2.53**	**2.53**
ENTREPRENEURSHIP	Women Literacy Centre project	4.27	4.27
	Agriculture and Agri Allied project	49.84	49.84
	Garment Centre Project (Project Anokha Dhaga)	29.26	29.26
	Sub Total	**83.37**	**83.37**
ESSENTIAL ENABLERS	PPGCL Wellness Clinic	79.5	79.5
	Stakeholder Management Projects	15.46	15.46
	Access to safe Drinking Water project	20.99	20.99
	Environment Protection Project	44.46	44.46
	Sub Total	**160.41**	**160.41**
OTHERS (ADMIN EXP)	CSR vehicle, CSR Consultancy, Employee Volunteering	31.34	31.34
TRANSFER TO TPCDT	Common pool fund for implementing Multiyear project	140	140
TOTAL-		**703**	**703**

Annuxure-9

Data of Stack, Ambient Air display at Main Gate of the plant.





Annexure-10

01

PPGCL

PRAYAGRAJ POWER GENERATION COMPANY LTD.

Ref: PPGCL/ENV/ FY26/534 Date: 06.09.2025

To,

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

Subject: Environment statement in Form V for the financial year 2024-2025.

Dear Sir,

Please find enclosed the Environment statement report for the period April-2024 to March-2025(FY24-25) for M/s Prayagraj Power Generation Company Limited, Bara.

This is for your kind information and record please.

Sincerely

Sanjay Bhargava
Chief O&M Services
For Prayagraj Power Generation Company Limited

Enclosures – Environment Statement (Form V) for FY 2024-2025

Cc:
The Regional Officer
U.P Pollution Control Board, Jhusi, 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 2025

PART-A

(i)	Name and Address of the Owner/Occupier of the industry or process	:	Mr. Sanjay Bhargava Prayagraj Power Generation Company Limited Vill. - Lohgara, Tehsil- Bara Distt – Prayagraj, Uttar Pradesh Pin- 212107
(ii)	Industry Category	:	Large
(iii)	Production Capacity	:	3 x 660 MW (Coal Based Thermal Power Plant)
(iv)	Year of establishment	:	Unit-1: 2016 Unit-2: 2016 Unit-3: 2017
(v)	Date of last Environment Statement submitted	:	22.06.2024

PART-B
Water and Raw Material Consumption

(1) Water Consumption (m^3/day)
Current Year (2024-2025)
Process : 75,553.4
Domestic : 2,139.55

Name of Product	Water consumption per unit of product output (m^3/MWh)	
	During the previous financial year 2023-2024	During the current financial year 2024-2025
Electricity	2.04	2.13

(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 2023-2024	During the current financial year 2024-2025
Coal	Electricity	612.03	589.85
HSD	Electricity	0.14	0.21

(3) Electricity Generation (MUs)

Name of Product	During the previous financial year 2023-24	During the current financial year 2024-2025
Electricity	12,699.02	12,987.15

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. Treated domestic effluent is used in horticulture.
Air (1)PM (2)SO_2 (3)NOx	 5.38 122.48 55.42	 28.43 647.50 293.00	-

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 2023-2024	During the current financial year 2024-2025
From Process	Cat-5.1: 19.95 kL	Cat-5.1: 41.06 kL
From Pollution Control facilities	Nil	Nil

PART-E
Solid Waste

Solid Waste	Total Quantity (MT/Annum)	
	During the previous financial year 2023-2024	During the current financial year 2024-2025
A. From Process	Nil	Nil
B. From Pollution Control facilities (Ash)	26,51,938.85	25,48,961.26

C. 1. Quantity recycled or reutilized within the unit 2. Sold 3. Recycled/Utilized	• The Fly ash is utilized in – Cement industry, for ash-based products like fly ash brick, filling of low-lying area and road construction. • Total quantity utilized in FY 24 – 35,07,170.12 MT	• The Fly ash is utilized in – Cement industry, for ash-based products like fly ash brick, filling of low-lying area, reclamation of abandoned mine and road construction. • Total quantity utilized in FY 25 – 29,02,642.36 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 – 41.06 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, reclamation of abandoned mine 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 bi-Flue stack (Unit 1 &2) and one stack (Unit 3) of 275-meter height, dust extraction and dust suppression system has been installed.
- Online monitoring system has already been installed in stack to monitor SO_2, NOx, 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, Kadam, Mahua, Sisam, Arjun, Mango, Pipal, Karanj, Kaner, Gulmohar, Siris, Jamun and Bamboo. During FY 25, we planted 37,018 saplings. Till March 25 we have planted approx 3,85,375 lakh saplings.

- We also have developed "Miyawaki Forest" (FY 25) with plantation of suitable 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.
- 60 No. Solar Street Light has been installed in nearby Berui, Bemra, Khan-semra, Kapari and Jorvat.
- 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 in consultation with the local forest department.
(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 the site is being managed by third party to convert it into compost.
(vi) E-waste and battery have been disposed through an authorized recycler.

Annexure - 11

Environment Expenditure FY 25-26

Sl.No.	Particular	Amount in Lakh
1	Enviroment Monitoring	13.36
2	Green belt dovelopment	10.00
3	Online monitoring System	13.48
4	Solid Waste management	31.20
5	Bio medical waste management	0.56
6	ESG Profiling	37.60
7	Misc.Other	13.66
	Toal (Rs In Lakh)	**119.86**

Annexure-12

भारत सरकार
परमाणु ऊर्जा विभाग
विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

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

प्रमाणपत्र ट्रैकिंग आईडी/Certificate Tracking ID : 2505005
जारी करने की तिथि/Date of Issue : 22-Nov-2025
प्रमाणपत्र क्रमांक/Certificate Sr.No.: ULR-TC117032500001535F

TC-16423

Radioanalytical Laboratory

RADIOACTIVITY TEST CERTIFICATE

Ref : BRIT/RAL/DOM/953-957/MISC/641-645/25-26

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

This is regarding the sample of "COAL" sent for radioactivity analysis vide your letter letter ref. no. PPGCL/ENV/FY25-26/542 dt. 20.10.2025 which as per above letter is drawn from consignment with the following markings, as shown in italics:

NAME & ADDRESS OF COMPANY	:	***M/S PRAYAGRAJ POWER GENERATION COMPANY LTD. POWER PLANT, PO-LOHGARA, TEHSIL,BARA, ALLAHABAD, UTTAR PRADESH, INDIA, 212107***
DATE OF SAMPLING	:	***14.10.2025***
SAMPLE CODE	:	***PPGCL/C/1***

DATE OF RECEIPT OF SAMPLE: 31.10.2025 **DATE OF COMPLETION OF TEST: 21.11.2025**

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

Sr. No	SAMPLE NAME	U-238	Th-232	Ra-226	K-40	Cs-137
1	COAL	37.3 ± 2.3	48.7 ± 7.6	10.5 ± 1.8	65.1 ± 5.0	MDL 0.6

TEST METHOD : IAEA TECH DOC-295-1989. PERMISSIBLE LIMIT (AS PER AERB DIRECTIVE 01/2010 (TABLE 3) : U-238, Ra-226 : 1000 Bq/kg ; Th-232 : 1000 Bq/Kg; K-40:10000 Bq/Kg & Cs-137:100 Bq/kg.

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 & artificial origin (viz. Cs-137) in bulk solid materials, as per AERB directive 01/2010 (table-2) 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:
GANPAT B NAKTI
Assistant

Authorized Signatory:
AJAY NANA THAMKE
OIC, RAL

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

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BRIT/ BARC Vashi Complex, Sector 20, Navi Mumbai - 400 703 (Maharashtra)
वेबसाइट/ Website: www.britatom.gov.in; दूरभाष/ 022 2788 7002/ 7006

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परमाणु ऊर्जा विभाग
विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

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

प्रमाणपत्र ट्रैकिंग आईडी/Certificate Tracking ID : 2504683
जारी करने की तिथि/Date of Issue : 22-Nov-2025
प्रमाणपत्र क्रमांक/Certificate Sr.No.: ULR-TC1170325000001357F

TC-16423

Radioanalytical Laboratory
RADIOACTIVITY TEST CERTIFICATE

Ref : BRIT/RAL/DOM/963-967/MISC/651-655/25-26

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

This is regarding the sample of "FKY ASH" sent for radioactivity analysis vide your letter letter ref. no. PPGCL/ENV/FY25-26/542 dt. 20.10.2025 which as per above letter is drawn from consignment with the following markings, as shown in italics:

NAME & ADDRESS OF COMPANY	:	***M/S PRAYAGRAJ POWER GENERATION COMPANY LTD. POWER PLANT, PO-LOHGARA, TEHSIL,BARA, ALLAHABAD, UTTAR PRADESH, INDIA, 212107***
DATE OF SAMPLING	:	***14.10.2025***
SAMPLE CODE	:	***PPGCL/F/3***

DATE OF RECEIPT OF SAMPLE: 31.10.2025 **DATE OF COMPLETION OF TEST: 21.11.2025**

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

Sr. No	SAMPLE NAME	U-238	Th-232	Ra-226	K-40	Cs-137
1	FLY ASH	85.1 ± 2.6	141.0 ± 2.9	79.3 ± 7.1	503.8 ± 26.2	MDL 0.6

TEST METHOD : IAEA TECH DOC-295-1989. PERMISSIBLE LIMIT (AS PER AERB DIRECTIVE 01/2010 (TABLE 3) : U-238, Ra-226,Th-232 : 1000 Bq/Kg; K-40:10000 Bq/Kg & Cs-137:100 Bq/kg.

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 & artificial origin (viz. Cs-137) in bulk solid materials, as per AERB directive 01/2010 (table-2) 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:
GANPAT B NAKTI
Assistant

Authorized Signatory:
AJAY NANA THAMKE
OIC, RAL

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

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BRIT/ BARC Vashi Complex, Sector 20, Navi Mumbai - 400 703 (Maharashtra)
वेबसाइट/ Website: www.britatom.gov.in; दूरभाष/ 022 2788 7002/ 7006

भारत सरकार
परमाणु ऊर्जा विभाग
विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

सत्यमेव जयते

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

प्रमाणपत्र ट्रैकिंग आईडी/Certificate Tracking ID : 2505007
जारी करने की तिथि/Date of Issue : 22-Nov-2025
प्रमाणपत्र क्रमांक/Certificate Sr.No.: ULR-TC1170325000001537F

TC-16423

Radioanalytical Laboratory
RADIOACTIVITY TEST CERTIFICATE

Ref : BRIT/RAL/DOM/958-962/MISC/646-650/25-26

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

This is regarding the sample of "BOTTOM ASH" sent for radioactivity analysis vide your letter letter ref. no. PPGCL/ENV/FY25-26/542 dt. 20.10.2025 which as per above letter is drawn from consignment with the following markings, as shown in italics:

NAME & ADDRESS OF COMPANY	:	***M/S PRAYAGRAJ POWER GENERATION COMPANY LTD. POWER PLANT, PO-LOHGARA, TEHSIL,BARA, ALLAHABAD, UTTAR PRADESH, INDIA, 212107***
DATE OF SAMPLING	:	***14.10.2025***
SAMPLE CODE	:	***PPGCL/B/2***

DATE OF RECEIPT OF SAMPLE: 31.10.2025 **DATE OF COMPLETION OF TEST: 21.11.2025**

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

Sr. No	SAMPLE NAME	U-238	Th-232	Ra-226	K-40	Cs-137
1	BOTTOM ASH	60.3 ± 2.4	117.1 ± 11.1	54.2 ± 6.1	280.6 ± 17.9	MDL 0.6

TEST METHOD : IAEA TECH DOC-295-1989. PERMISSIBLE LIMIT (AS PER AERB DIRECTIVE 01/2010 (TABLE 3) : U-238, Ra-226 ; Th-232 : 1000 Bq/Kg; K-40:10000 Bq/Kg & Cs-137:100 Bq/kg.

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 & artificial origin (viz. Cs-137) in bulk solid materials, as per AERB directive 01/2010 (table-2) 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:
GANPAT B NAKTI
Assistant

Authorized Signatory:
AJAY NANA THAMKE
OIC, RAL

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TEST REPORT

Issued To		
M/S PRAYAGRAJ POWER GENERATION COMPANY LTD. POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108 Prayagraj,212108 Uttar Pradesh,India	**Sample Reg. No.** : SR01BL-2601290001 **Sample Reg. Date.** : 29/01/2026 **Report Date.** : 23/02/2026 **Report No.** : TR01BL-2602230061 **Customer Ref. No.** : PO	

Sample Particulars			
Name of Sample#	: **Fly Ash**		
Submitted By#	: M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.		
Batch No.#	: NA	**Batch Size #**	: NA
Manufactured By#	: Not Specified	**Mfg. Lic. No.#**	: NA
Supplied By#	: Not Specified		
Date of Manufacture#	: NA	**Date of Expiry#**	: NA
Sample Qty#	: 400gm	**Sample Condition**	: Good
Grade#	: NA	**Brand Name#**	: NA
Official Seal	: Not Applicable	**Official Signature**	: Not Applicable
Packaging Details	: Packed in poly pack	**Declared values(if any)**	: Not Specified
Any Other Information	: Date of Sampling: 27.01.2026		
Test Report as per	: Party Specification	**With Amendment No.(s)**	: Not Specified

Test Results

Analysis started on : 03/02/2026 **Analysis completed on** : 23/02/2026

Description : Fly Ash

S. No.	Parameter	Unit	Method	Requirements	Result
	Discipline : Chemical				
	Group : Building Material				
1	**Chemical Parameters**				
(a)	Aluminium Oxide(as Al2O3)	% by mass	IS: 1727	NA	27.38
(b)	Sodium Oxide(as Na2O)	mg/kg	ASTM C114:15	NA	0.23
(c)	Potassium Oxide(as K2O)	mg/kg	ASTM C114:15	NA	0.44
(d)	Loss on ignition	% by mass	IS: 1727	NA	0.90
(e)	Calcium Oxide(as CaO)	% by mass	IS: 1727	-	1.98
(f)	Iron Oxide(as Fe2O3)	% by mass	IS: 1727-1967	NA	6.75
(g)	Silicon Dioxide (as SiO2)	%	IS: 1727-1967	-	59.92
(h)	Sulphate as SO3	mg/kg	IS: 1727	-	0.21
(i)	Phosphoprous(P2O5)	mg/kg	Inhouse Method	-	0.18
(j)	Specific gravity	NA	Inhouse Mehod	-	1.226

23/02/2026
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Issued To M/S PRAYAGRAJ POWER GENERATION COMPANY LTD. POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108 Prayagraj,212108 Uttar Pradesh,India	**Sample Reg. No.** : SR01BL-2601290001 **Sample Reg. Date.** : 29/01/2026 **Report Date.** : 23/02/2026 **Report No.** : TR01BL-2602230061 **Customer Ref. No.** : PO

S. No.	Parameter	Unit	Method	Requirements	Result
	Discipline : Mechanical				
2	**General Parameters**				
(a)	Moisture Content	% by mass	IS: 3812	NA	2.16
(b)	Magnesium Oxide (as MgO)	mg/kg	IS: 1727-1967	-	1.15
(c)	Chloride(as Cl)	% by mass	IS:4032	-	0.004
(d)	Permeability	%	IS: 2720 (P-17)	-	1.21
	Discipline : Chemical				
3	**Physical Category**				
(a)	Particle Size (10 - 50)	%	Inhouse Method	-	42.1
(b)	Particle Size (100 - 150 micron)	%	Inhouse Method	-	6.7
(c)	Particle Size (50 - 75)	%	Inhouse Method	-	1.7
(d)	Particle Size (75 - 100)	%	Inhouse Method	-	2.8
(e)	Particle Size (>150)	%	Inhouse Method	-	12.6
(f)	Particle Size (Below 10 micron)	%	Inhouse Method	-	26.3
(g)	Titanium Oxide (as TiO2)	mg/kg	STP/ITC/F/INST/008	-	111.79 mg/kg
	Discipline : Mechanical				
(a)	Particle Size (10 - 50)	%	Inhouse Method	-	42.1
(b)	Particle Size (100 - 150 micron)	%	Inhouse Method	-	6.7
(c)	Particle Size (50 - 75)	%	Inhouse Method	-	1.7
(d)	Particle Size (75 - 100)	%	Inhouse Method	-	2.8
(e)	Particle Size (>150)	%	Inhouse Method	-	12.6
(f)	Particle Size (Below 10 micron)	%	Inhouse Method	-	26.3
(g)	Titanium Oxide (as TiO2)	mg/kg	STP/ITC/F/INST/008	-	111.79 mg/kg

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Sample Particulars			
Name of Sample#	: **Bottom Ash**		
Submitted By#	: M/S PRAYAGRAJ POWER GENERATION COMPANY LTD.		
Batch No.#	: NA	**Batch Size #**	: NA
Manufactured By#	: Not Specified	**Mfg. Lic. No.#**	: NA
Supplied By#	: Not Specified		
Date of Manufacture#	: NA	**Date of Expiry#**	: NA
Sample Qty#	: 400gm	**Sample Condition**	: Good
Grade#	: NA	**Brand Name#**	: NA
Official Seal	: Not Applicable	**Official Signature**	: Not Applicable
Packaging Details	: Packed in poly pack	**Declared values(if any)**	: Not Specified
Any Other Information	: Date of Sampling: 27.01.2026		
Test Report as per	: Party Specification	**With Amendment No.(s)**	: Not Specified

Test Results

Analysis started on : 03/02/2026 **Analysis completed on** : 21/02/2026

Description : Bottom Ash

S. No.	Parameter	Unit	Method	Requirements	Result
	Discipline : Chemical				
	Group : Building Material				
1	**Chemical Parameters**				
(a)	Aluminium Oxide(as Al2O3)	% by mass	IS: 1727	NA	27.49
(b)	Sodium Oxide(as Na2O)	mg/kg	ASTM C114:15	NA	0.19
(c)	Potassium Oxide(as K2O)	mg/kg	ASTM C114:15	NA	0.40
(d)	Loss on ignition	% by mass	IS: 1727	NA	0.50
(e)	Calcium Oxide(as CaO)	% by mass	IS: 1727	-	7.97
(f)	Iron Oxide(as Fe2O3)	% by mass	IS: 1727-1967	NA	5.58
(g)	Silicon Dioxide (as SiO2)	%	IS: 1727-1967	-	56.18
(h)	Sulphate as SO3	mg/kg	IS: 1727	-	0.34
(i)	Phosphoprous(P2O5)	mg/kg	Inhouse Method	-	0.08
(j)	Specific gravity	NA	Inhouse Mehod	-	1.230

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M/S PRAYAGRAJ POWER GENERATION COMPANY LTD. POWER PLANT, VILLAGE KHANSEMRA, TEHSIL, BARA, Prayagraj, Uttar Pradesh, 212108 Prayagraj,212108 Uttar Pradesh,India	**Sample Reg. No.** : SR01BL-2601290002 **Sample Reg. Date.** : 29/01/2026 **Report Date.** : 21/02/2026 **Report No.** : TR01BL-2602210060 **Customer Ref. No.** : PO

S. No.	Parameter	Unit	Method	Requirements	Result
2	**General Parameters**				
(a)	Moisture Content	% by mass	IS: 3812	NA	2.40
(b)	Magnesium Oxide (as MgO)	mg/kg	IS: 1727-1967	-	1.15
(c)	Chloride(as Cl)	% by mass	IS:4032	-	0.004
(d)	Permeability	Cm/Sec	IS: 2720 (P-17)	-	1.89
3	**Physical Category**				
(a)	Particle Size (10 - 50)	%	Inhouse Method	-	46
(b)	Particle Size (100 - 150 micron)	%	Inhouse Method	-	8.3
(c)	Particle Size (50 - 75)	%	Inhouse Method	-	1.6
(d)	Particle Size (75 - 100)	%	Inhouse Method	-	2.2
(e)	Particle Size (>150)	%	Inhouse Method	-	11.4
(f)	Particle Size (Below 10 micron)	NA	Inhouse Method	-	29.2
(g)	Titanium Oxide (as TiO2)	mg/kg	STP/ITC/F/INST/008	-	123.58 mg/kg
	Discipline : Mechanical				
(a)	Particle Size (10 - 50)	%	Inhouse Method	-	46
(b)	Particle Size (100 - 150 micron)	%	Inhouse Method	-	8.3
(c)	Particle Size (50 - 75)	%	Inhouse Method	-	1.6
(d)	Particle Size (75 - 100)	%	Inhouse Method	-	2.2
(e)	Particle Size (>150)	%	Inhouse Method	-	11.4
(f)	Particle Size (Below 10 micron)	NA	Inhouse Method	-	29.2
(g)	Titanium Oxide (as TiO2)	mg/kg	STP/ITC/F/INST/008	-	123.58 mg/kg

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A Report on Work Order No. 6000002586

Epidemiological Study of five adopted villages within 5 KM radius of PPGCL Plant Premises

PPGCL, Prayagraj, Uttar Pradesh, India

Department of Civil Engineering

IIT (BHU), Varanasi - 221005

Prof. Anurag Ohri
Professor

Dr. Shishir gaur
Associate Professor

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1.Introduction

Power generation and industrial development depend on coal-fired thermal power plants in many emerging and industrialised nations, including India. Urbanisation, industrial expansion, transportation, agricultural growth, and economic growth are supported by thermal energy, which accounts for a large share of power generation. Due to the high emissions from coal combustion and industrial processes, coal-based thermal power plants are one of the biggest contributors of environmental pollution, despite their economic importance. Due to rising electricity demand, coal-fired power stations in India are expanding, generating worries about their environmental and public health implications on local populations.

Coal combustion in thermal power plants releases pollutants to the atmosphere, including $PM_{2.5}$ and PM_{10}, SO_2, NO_x, CO, VOCs, fly ash, and greenhouse gases like CO_2. Mercury (Hg), arsenic (As), lead (Pb), selenium (Se), cadmium (Cd), and uranium (U) in coal combustion leftovers can pollution air, soil, and groundwater. In areas near thermal power plants and ash disposal sites, these pollutants can harm the environment and human health.

Environmental contamination from thermal power stations can damage communities in numerous ways. Based on wind speed, direction, rainfall, and local climate, airborne contaminants and particulate matter may spread throughout adjacent settlements. PM can infiltrate the respiratory system and cause respiratory and cardiovascular problems. Plants and fields covered in fly ash may suffer crop yields and soil fertility. Groundwater contamination from ash pond seepage and illegal industrial waste disposal can provide long-term health threats to public health through drinking water exposure.

Persistent thermal power plant emissions have become a global health hazard. Numerous epidemiological studies in different countries have linked industrial air pollution to respiratory disorders like chronic bronchitis, asthma, COPD, allergic conditions, and reduced lung function. Sulphur dioxide, nitrogen oxides, and particulate matter can also cause cardiovascular illness, hypertension, ischaemic heart disease, neurological problems, eye irritation, dermatological ailments, impaired pregnancy outcomes, and cancer. Because of their weaker

immunity and higher physiological sensitivity, children, elderly, pregnant women, and people with chronic illnesses are especially exposed to environmental pollution. Industrial air pollution in India is dominated by coal-fired thermal power plants. Studies show that thermal power station emissions significantly increase ambient particulate matter and sulphur dioxide levels. Thermal power plants commonly coexist with cement factories, mining operations, transportation corridors, and other polluting operations in industrial belts, imposing environmental burdens on local towns. Environmental exposure and health impacts are more likely to affect rural people near industrial zones because they are socioeconomically fragile and dependent on agriculture, groundwater, and outdoor labour.

Agriculture, day wagers, and small-scale occupations dominate the selected villages' livelihoods. The majority of families get drinking water from handpumps, wells, and limited piped infrastructure. Regional land use includes agricultural fields, residential communities, barren terrain, and open areas. Airborne dust, fly ash deposition, groundwater contamination, and noise pollution may be present around the thermal power plant and ash ponds. Precipitation and wind patterns affect pollution dispersion and environmental exposure in the research region.

To analyse the environmental and health conditions of five communities within 5 km of PPGCL, this epidemiological study was conducted. Environmental contamination, groundwater quality, climate influence, and community health are examined. It also links industrial exposure to respiratory ailments, eye irritation, skin disorders, gastrointestinal issues, and other environmental health impacts. Recon surveys, focused group talks, clinical data evaluation, water quality monitoring, and environmental observations are used to assess environmental exposure and public health issues.

2.About PPGCL Plant

Prayagraj Power Generation Company Limited (PPGCL) is a coal-based thermal power plant located in Prayagraj district, Uttar Pradesh, and operates with a generation capacity of 3 × 660 (1980) MW using super-critical technology. The plant is spread across approximately 573.17 hectares of land, including the ash pond and green belt areas. PPGCL uses pulverized coal-fired boilers with indigenous coal supplied from Northern Coalfields Limited (NCL) as the primary fuel source. During the financial year 2024–2025, the plant consumed approximately 76,60,525.81 metric tonnes of coal while operating at a Plant Load Factor (PLF) of 74.90%. The plant is equipped with two high-rise chimneys, including one bi-flue stack and one single-flue stack, each having a height of 275 meters for atmospheric dispersion of emissions.



3. Objectives of the study

The primary objective of the epidemiological study was to assess environmental and public health conditions in villages located within the influence zone of PPGCL and to evaluate possible associations between industrial pollution exposure and community health outcomes. The study aimed to establish baseline information related to air quality, groundwater contamination, disease prevalence, occupational exposure, and community perception regarding environmental degradation. Special emphasis was placed on identifying vulnerable population groups such as children, elderly individuals, women, outdoor workers, and people with pre-existing chronic illnesses who may be more susceptible to pollution-related health impacts.

The selected study villages are predominantly rural in nature, where agriculture, daily wage labor, and small-scale occupations form the major sources of livelihood. Most residents depend on handpumps, wells, and limited piped water supply for drinking water. The study area is characterized by agricultural land, residential settlements, barren land, and open spaces. Due to their close proximity to the thermal power plant, residents may be exposed to pollutants through multiple environmental pathways, including inhalation of airborne particulate matter, exposure to fly ash deposition, dust generated from transportation activities, and possible groundwater contamination caused by industrial waste disposal and ash pond seepage. Seasonal variations such as wind speed, wind direction, and rainfall patterns may further influence pollutant dispersion and exposure levels in surrounding communities.

Several national and international epidemiological studies have demonstrated that long-term exposure to pollutants emitted from coal-fired thermal power plants can increase the risk of respiratory and cardiovascular diseases. Continuous exposure to fine particulate matter ($PM_{2.5}$) has been associated with asthma, chronic bronchitis, chronic obstructive pulmonary disease (COPD), allergic conditions, and reduced lung function. Other reported health effects include hypertension, ischemic heart disease, neurological disorders, eye irritation, skin diseases, gastrointestinal problems, adverse reproductive outcomes, and increased risks of cancers such as lung and colorectal cancer. Children, pregnant women, and elderly populations are considered particularly vulnerable due to their lower physiological resistance and increased sensitivity to environmental pollutants.

The study methodology included reconnaissance surveys, field observations, demographic profiling, focus group discussions, environmental monitoring, groundwater quality assessment, and evaluation of community health conditions. Observations were made regarding settlement patterns, residential proximity to industrial infrastructure, dust deposition, condition of vegetation, sanitation practices, waste disposal methods, and accessibility to healthcare facilities. These baseline observations were important for understanding exposure pathways and identifying environmental and socioeconomic factors that may influence disease occurrence and vulnerability among residents.

4. Study Area



The present epidemiological study was conducted in villages located within a 5-km radius of the PPGCL (Prayagraj Power Generation Company Limited) coal-fired thermal power plant premises. The selected study area comprises five villages: **Kapari, Bemra, Berui, Khan Semra, and Jorwat**, which fall within the immediate influence zone of plant emissions and associated activities such as coal handling, ash disposal, and transportation.

5. Methodology

The present epidemiological study of five villages located within a 5 km radius of Prayagraj Power Generation Corporation Limited (PPGCL), Uttar Pradesh, was conducted under the guidance and supervision of **Prof. Anurag Ohri** and **Dr. Shishir Gaur** from the Department of Civil Engineering, Indian Institute of Technology (BHU), Varanasi, along with two research team members **Dr. Ravikant Dubey** & **Mr Arvind Kumar Prajapati** involved in field investigation, environmental monitoring, and data collection activities. The study was designed as a multidisciplinary environmental and public health assessment to evaluate the possible impact of coal-fired thermal power plant operations on surrounding communities and environmental resources. Environmental sample testing and laboratory investigations were carried out at the **Central Instrumental Facility (CIF), IIT (BHU), Varanasi**, using advanced analytical instruments and scientific laboratory techniques.

The study methodology was developed to systematically assess environmental pollution, groundwater quality, disease prevalence, and exposure pathways among villages situated within the influence zone of the thermal power plant. The investigation included environmental assessment, household-level surveys, clinical data analysis, field observations, and epidemiological interpretation. The methodology adopted for the study is described below.

5.1. Reconnaissance Survey of Five Villages

The reconnaissance survey constituted the preliminary phase of the epidemiological study and was conducted to obtain baseline information regarding the geographical, environmental, demographic, and socioeconomic characteristics of the study area. Field visits were carried out in the five selected villages namely Kapari, Berui, Khan Semra, Bemra, and Jorwat to understand settlement distribution, residential proximity to the thermal power plant, ash ponds, transportation corridors, and other potential pollution sources.

During the survey, observations were made regarding housing conditions, drinking water sources, sanitation practices, waste disposal methods, vegetation condition, agricultural activities, and visible environmental impacts such as dust deposition on rooftops, crops, and trees. The reconnaissance survey also helped identify vulnerable population groups including children, elderly individuals, women, and outdoor workers who may experience greater exposure to environmental pollutants. This preliminary assessment formed the basis for planning household surveys, environmental monitoring, and sample collection activities.

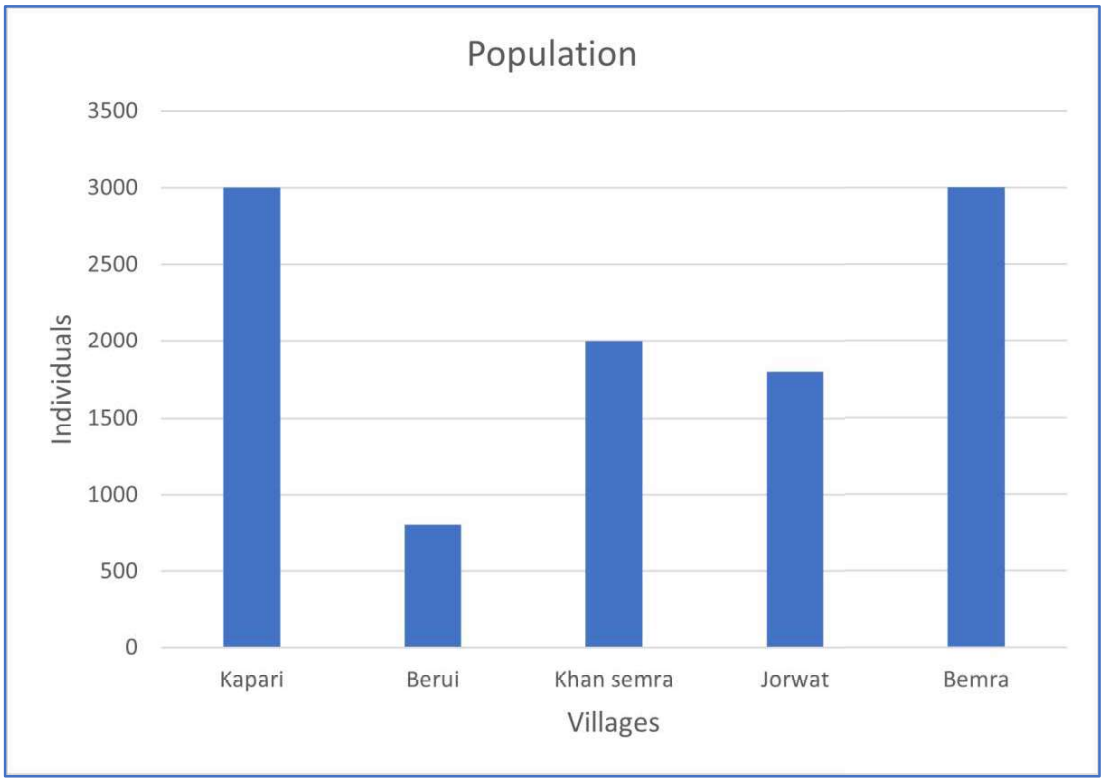
5.2. Household Survey and Focused Group Discussions (FGDs)

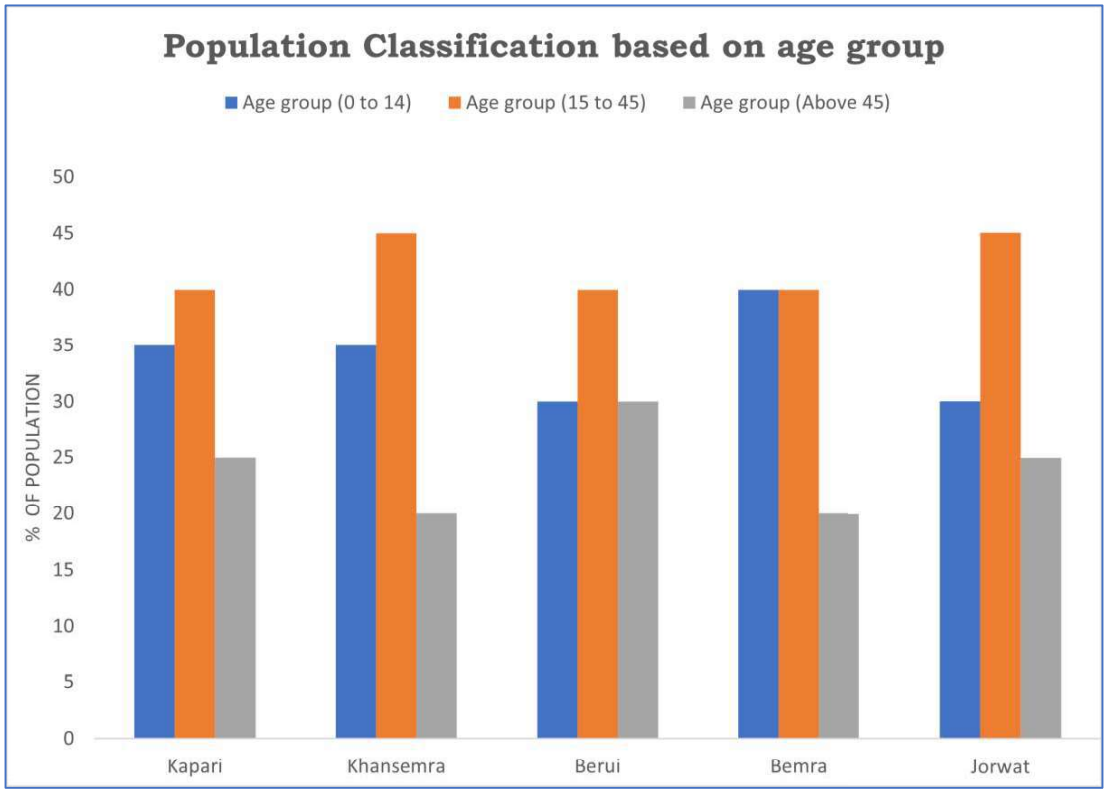
Household surveys and Focused Group Discussions (FGDs) were conducted in all five villages to collect primary information related to environmental exposure, occupational activities, socioeconomic conditions, and community health status. Structured questionnaires were used to gather household-level information regarding family size, occupation, educational status, source of drinking water, cooking fuel type, smoking habits, sanitation facilities, and prevalence of common diseases among residents.

Focused Group Discussions were organized with villagers, farmers, women groups, laborers, ASHA workers, village representatives, and elderly residents to understand collective community perception regarding pollution and environmental degradation. Discussions focused on issues such as dust pollution, groundwater quality deterioration, changes in agricultural productivity, respiratory health problems, eye irritation, seasonal diseases, and healthcare accessibility. The FGDs also provided qualitative information regarding environmental changes observed after establishment of the thermal power plant and associated industrial activities.

The household survey and Focused Group Discussions (FGDs) conducted in the five villages namely Kapari, Berui, Khan Semra, Jorwat, and Bemra provided important information regarding demographic characteristics, occupational patterns, environmental exposure, lifestyle habits, drinking water sources, and public perception of environmental pollution and health risks associated with the nearby thermal power plant and industrial activities. The findings of the survey reflect the socioeconomic vulnerability of the rural population and their dependence on natural resources and outdoor occupations, which may increase their susceptibility to environmental degradation and pollution-related health effects.

5.2.1 Population Distribution

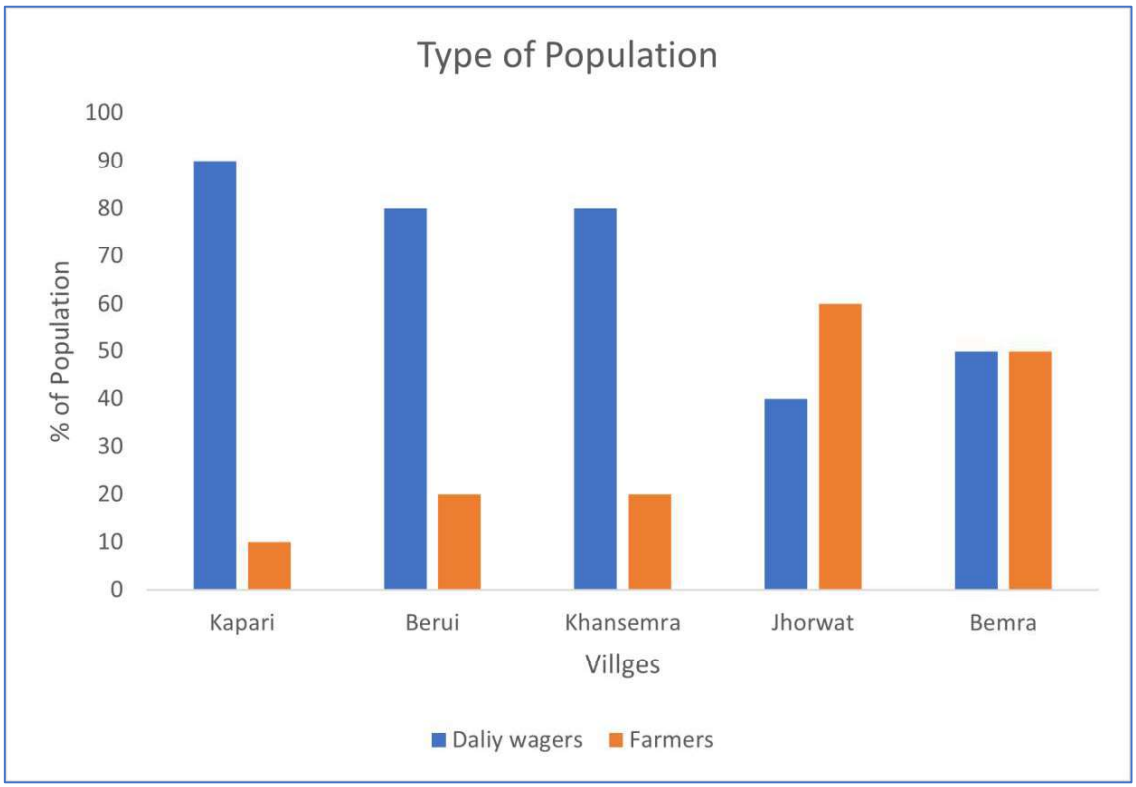




The population data indicate variation in population size among the five villages located within the 5 km radius of PPGCL. Kapari and Bemra are the most densely populated villages, each having an estimated population of approximately 3000 residents. Khan Semra has a moderate population of around 2000 individuals, while Jorwat has nearly 1800 residents. Berui has the lowest population among the surveyed villages, with approximately 800 residents.

The relatively higher population density in Kapari and Bemra suggests that a larger number of people may potentially be exposed to environmental pollutants generated from industrial activities. Population concentration is an important epidemiological factor because densely populated settlements may experience greater cumulative exposure and increased disease burden in the event of environmental contamination.

5.2.2 Occupational Structure of Population

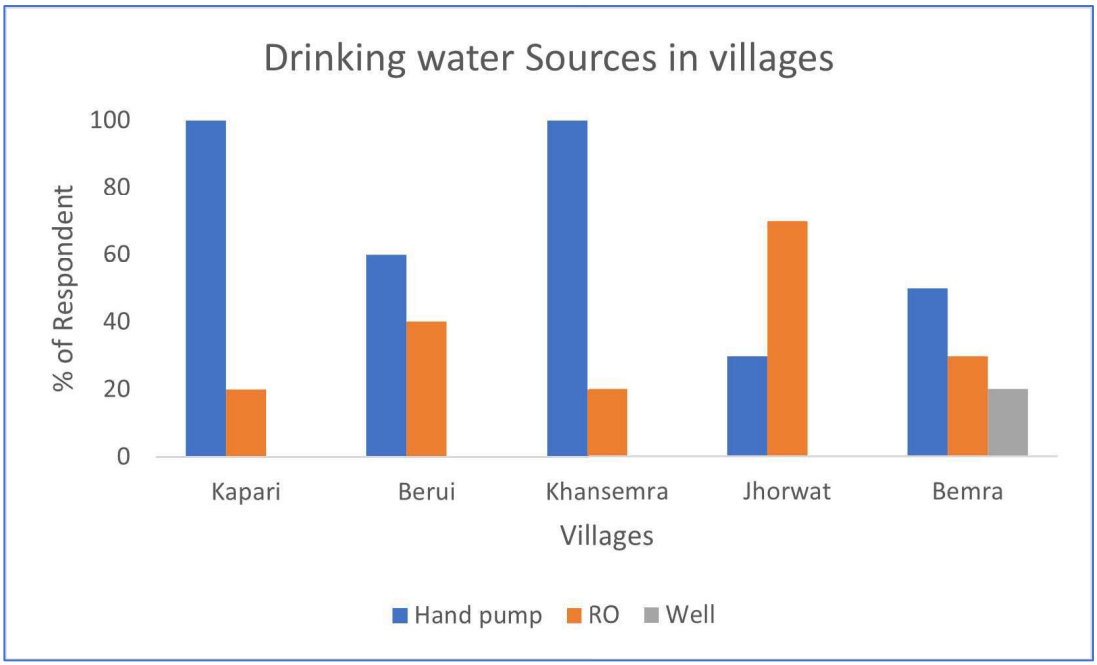


The household survey revealed that agriculture and daily wage labour constitute the principal occupations across the study area. A significant proportion of the respondents in Kapari, Berui, and Khan Semra villages are engaged in daily wage labor and outdoor occupational activities. Approximately 90% of respondents in Kapari and nearly 80% in Berui and Khan Semra were reported to be daily wage workers. In contrast, Jorwat demonstrated a comparatively higher proportion of farming activities, with nearly 60% of respondents dependent on agriculture.

The predominance of outdoor occupations increases direct exposure to airborne pollutants, dust deposition, and changing environmental conditions. Laborers working in open environments, transportation activities, mining-related work, and agricultural fields are likely to experience prolonged inhalation exposure to particulate matter and industrial dust. Since the majority of

the population depends economically on outdoor occupations, environmental degradation may also directly affect livelihood security and socioeconomic stability within these villages.

5.2.4 Drinking Water Sources



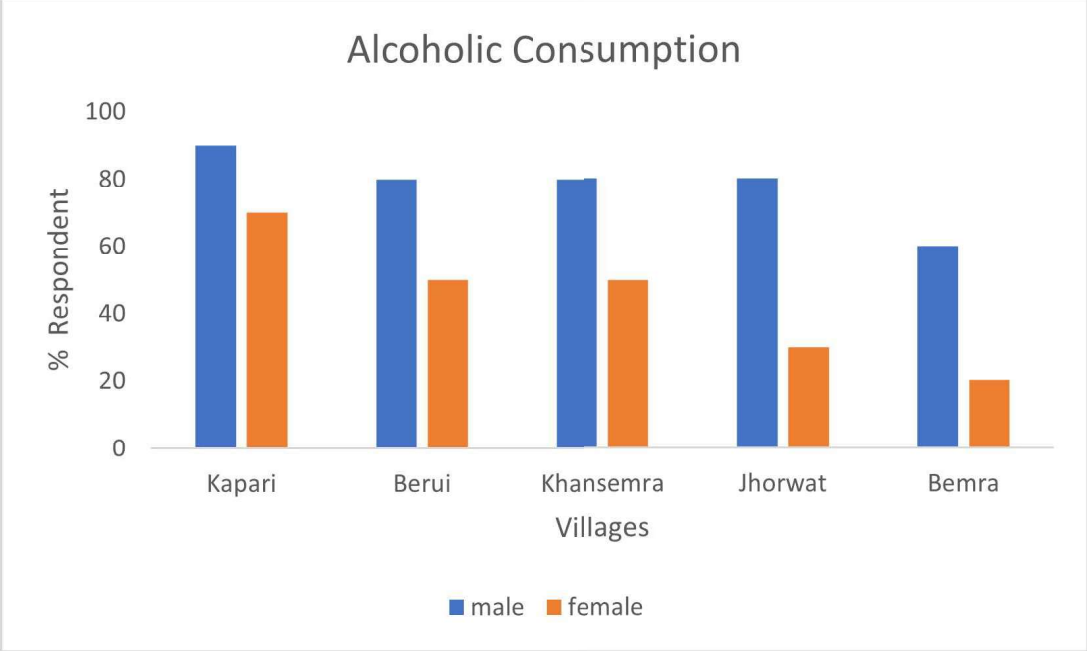
The household survey demonstrated that handpumps remain the primary source of drinking water in most villages. In Kapari and Khan Semra, nearly the entire population depends on handpump water for domestic use and drinking purposes. Berui also relies predominantly on handpump water, although a moderate proportion of respondents reported access to RO-treated water.

Jorwat exhibited comparatively greater dependence on RO water systems, with nearly 70% of respondents utilizing treated drinking water. Bemra demonstrated a mixed pattern of water usage, where households depended on handpumps, RO systems, and wells for drinking water supply.

The high dependence on groundwater sources is epidemiologically significant because contamination of groundwater through ash pond seepage or industrial waste disposal may directly affect community health. Several respondents reported yellowish water, unpleasant taste, and possible iron contamination in handpump water. Villagers residing closer to ash ponds and industrial premises expressed greater concern regarding groundwater quality deterioration and possible contamination associated with industrial activities.

Although RO systems have been installed under CSR initiatives, villagers reported limited accessibility and non-functional treatment units in certain locations. The uneven distribution of safe drinking water infrastructure increases the vulnerability of economically weaker populations who remain dependent on untreated groundwater sources.

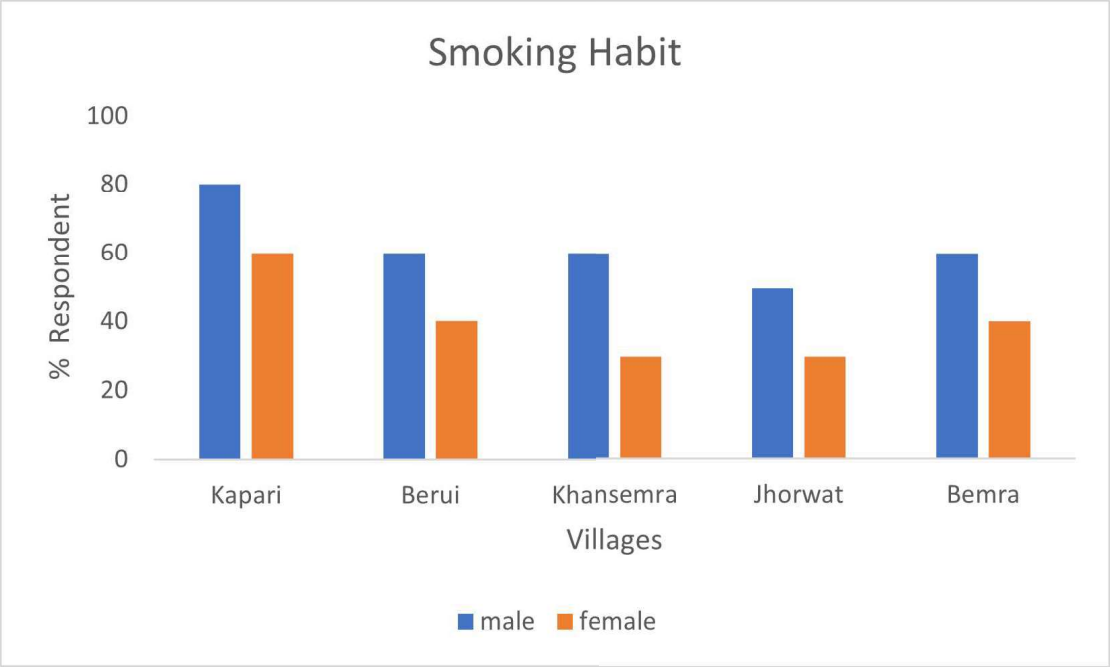
5.2.5 Alcohol Consumption



The household survey also assessed alcohol consumption habits among respondents because lifestyle factors may significantly influence epidemiological interpretation of health outcomes. The findings indicate a relatively high prevalence of alcohol consumption among male respondents across all villages. Kapari exhibited the highest prevalence of alcohol consumption among males, followed by Berui, Khan Semra, and Jorwat. Female alcohol consumption was comparatively lower in all villages, although moderate levels were observed in Kapari, Berui, and Khan Semra.

High prevalence of alcohol consumption may contribute independently to chronic health problems including liver disorders, cardiovascular diseases, nutritional deficiencies, and reduced immunity. Alcohol consumption may also act as a confounding factor while assessing pollution-related health effects within the study population.

5.2.6 Smoking Habits

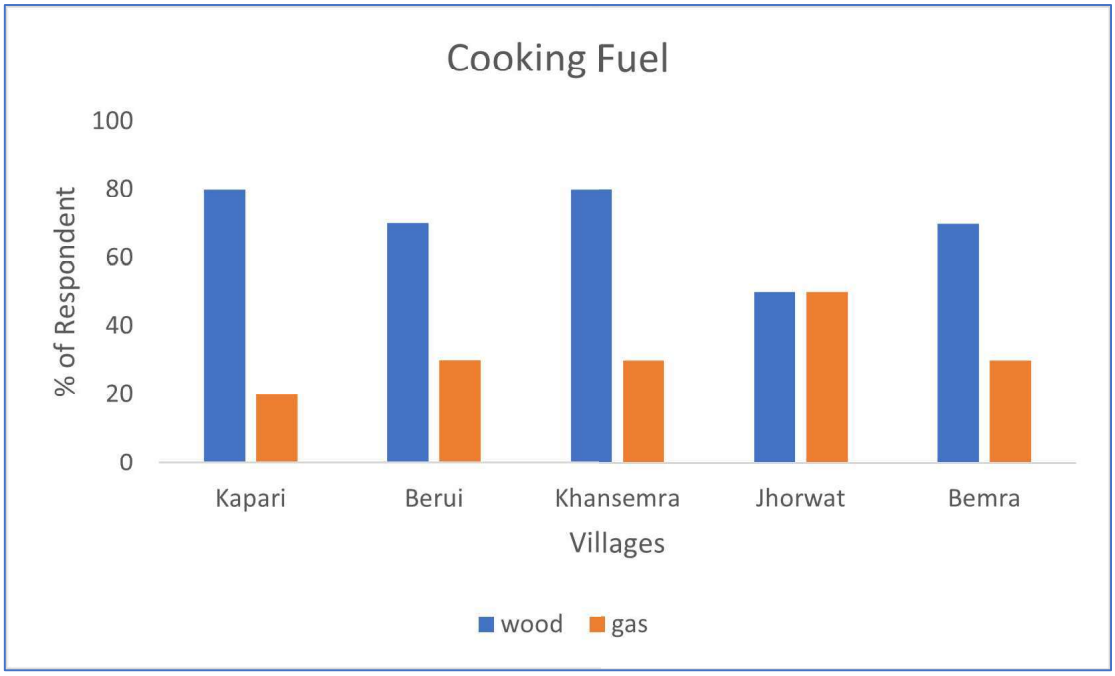


Smoking habits were found to be common among respondents in all surveyed villages. Kapari showed the highest prevalence of smoking, particularly among male respondents, followed by Berui, Khan Semra, and Bemra. Female smoking prevalence was comparatively lower but still present in several villages.

The high prevalence of smoking is epidemiologically important because smoking itself is a major risk factor for respiratory diseases, chronic bronchitis, asthma, cardiovascular disorders, and reduced pulmonary function. In populations already exposed to industrial air pollution and dust, smoking may further aggravate respiratory symptoms and increase susceptibility to pollution-related diseases.

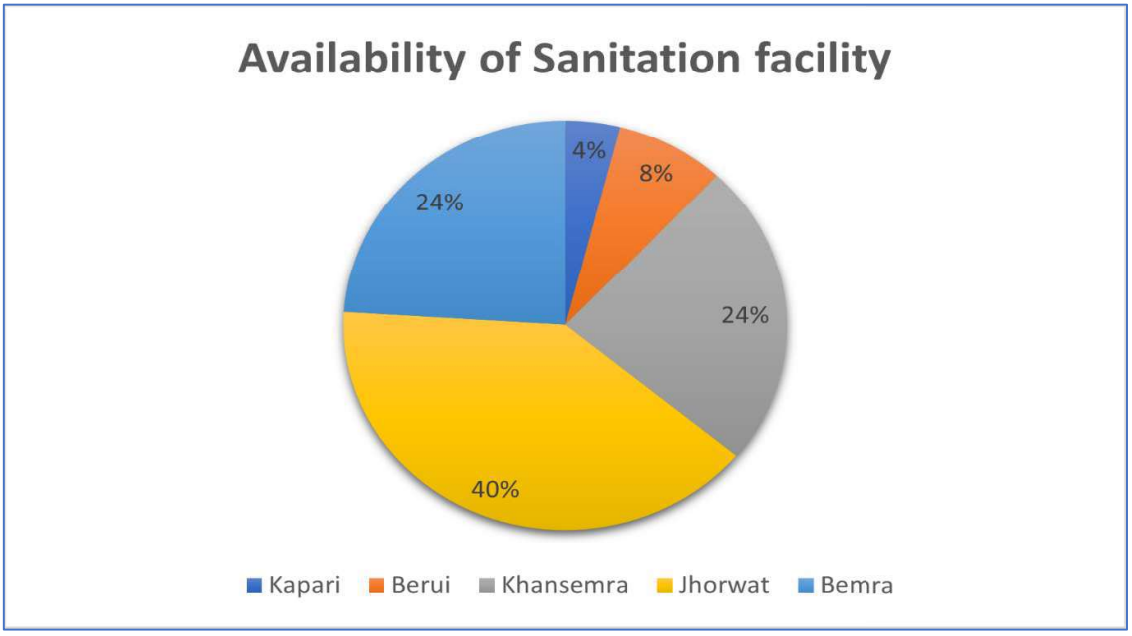
Therefore, smoking behavior must be considered as an important confounding factor during interpretation of respiratory and pulmonary health outcomes in the epidemiological study.

5.2.7 Cooking Fuel Usage



The survey findings indicate considerable variation in cooking fuel usage among villages. Kapari showed complete dependence on wood and biomass fuel for cooking purposes, while Khan Semra and Berui also demonstrated high dependence on traditional biomass fuels. In contrast, Jorwat exhibited greater use of LPG/gas fuel, with approximately 80% of respondents using cleaner cooking energy sources. Bemra showed mixed fuel usage patterns with dependence on both wood and gas.

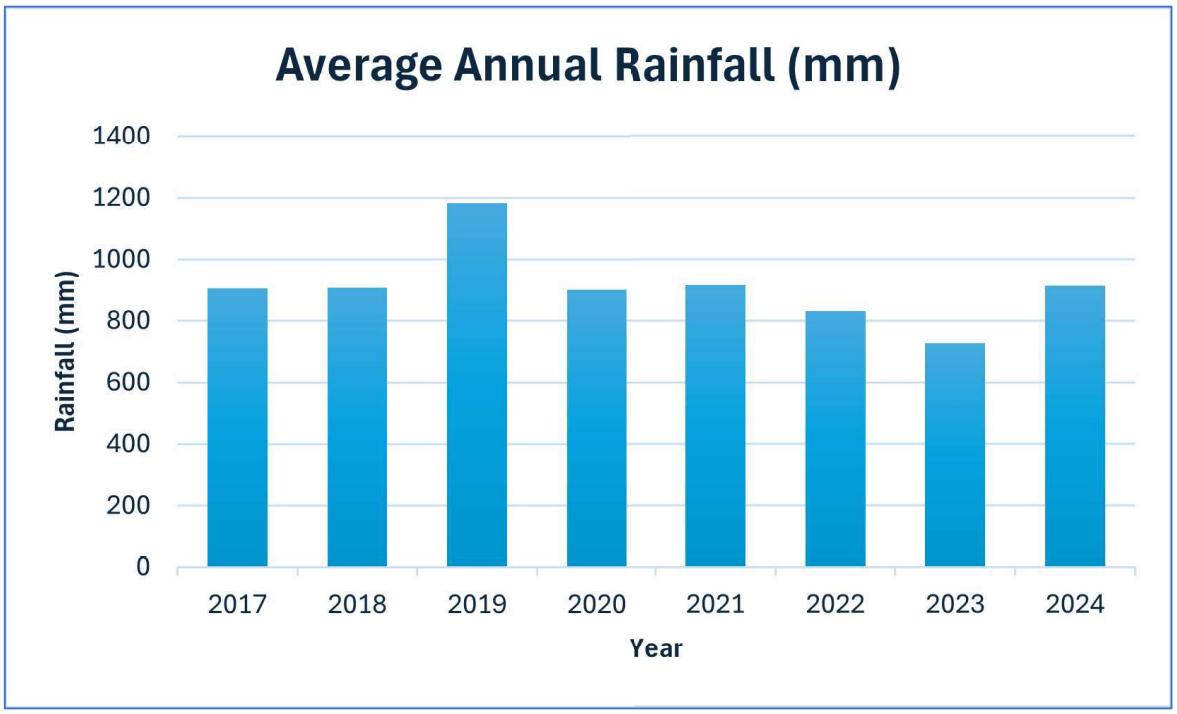
The use of biomass fuel such as wood and agricultural residue contributes significantly to indoor air pollution, particularly among women and children who spend more time near cooking areas. Continuous exposure to biomass smoke may increase the risk of respiratory irritation, chronic cough, eye problems, and pulmonary diseases. Therefore, indoor air pollution from cooking fuel use represents an additional environmental health burden in the study area.

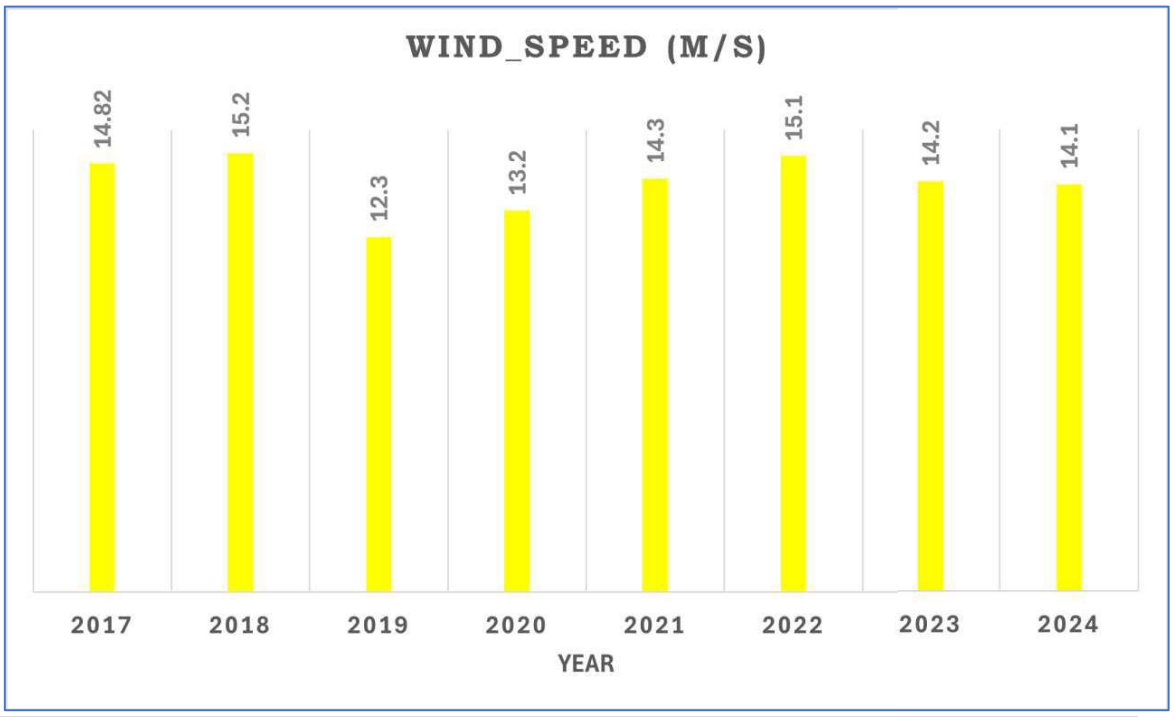


The pie chart representing sanitation facilities shows that Jorwat contributed the highest share, accounting for about 40% of the available sanitation facilities. Khansemra and Bemra each accounted for nearly 24%, while Berui contributed around 8% and Kapari only 4%. The unequal distribution of sanitation facilities indicates disparities in infrastructure development among the villages, which may influence the prevalence of communicable diseases and overall public health conditions.

5.3 Environmental Data Collection

5.3.1 Climatic Conditions in study area





The analysis of average annual rainfall and wind speed from 2017 to 2024 indicates that climatic conditions in the study area have remained relatively stable and environmentally favorable. These environmental parameters play an important role in maintaining ecological balance, groundwater recharge, air circulation, and overall public health conditions in the villages.

The rainfall data show that the study area received moderate to high annual rainfall throughout the observation period. The highest rainfall was recorded in 2019, reaching approximately 1180 mm, while the lowest rainfall occurred in 2023, with around 720 mm. Most of the years experienced rainfall between 850 mm and 920 mm, indicating adequate precipitation for groundwater recharge and environmental sustainability. Sufficient rainfall contributes positively to the dilution of pollutants, replenishment of groundwater aquifers, and maintenance of water quality in handpumps and other groundwater sources used by the villagers.

5.3.2 Water Quality Assessment



Environmental data collection was carried out to assess the extent of environmental exposure within the study area. Information regarding dust accumulation, fly ash deposition, groundwater usage, vegetation stress, waste disposal practices, and land use patterns was documented through field observations and community interactions.

Meteorological conditions including annual rainfall and wind speed were also evaluated because they significantly influence pollutant dispersion and deposition patterns. Environmental exposure pathways such as airborne particulate matter ($PM_{2.5}$ and PM_{10}), fly ash deposition, transportation-related dust, ash pond seepage, and noise pollution were assessed to understand their possible impact on nearby populations.

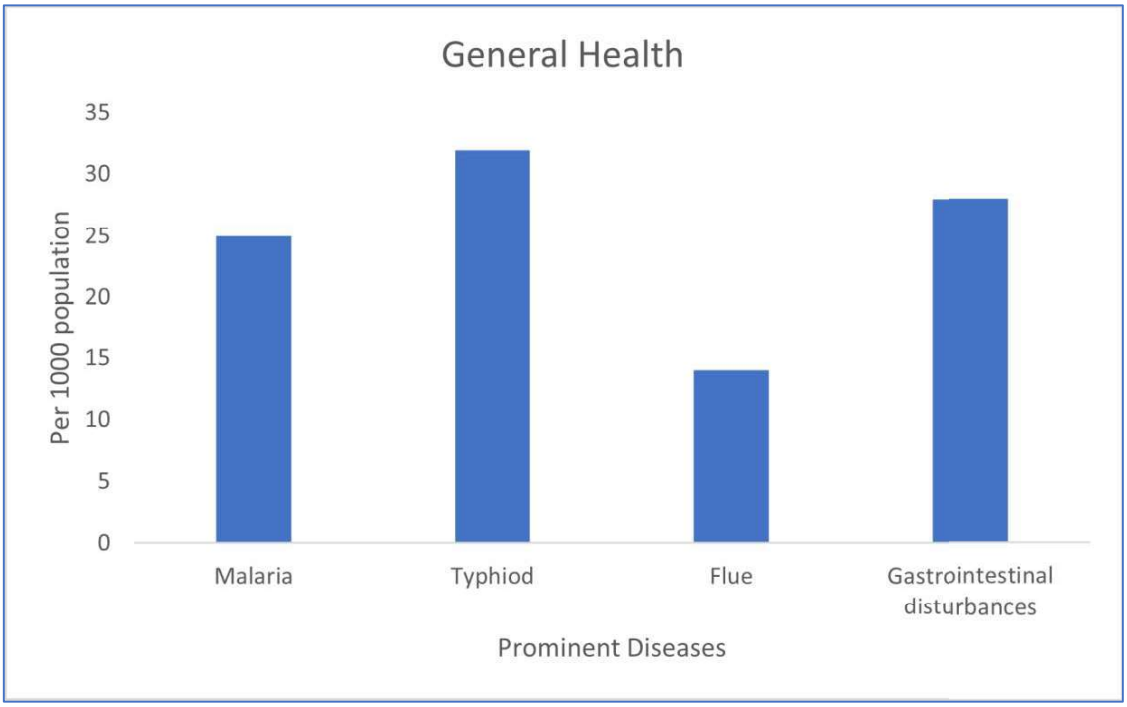
Special attention was given to villages situated close to ash ponds and coal transportation routes because such areas are generally more vulnerable to environmental contamination and prolonged pollutant exposure.

5.4. Public Health Survey

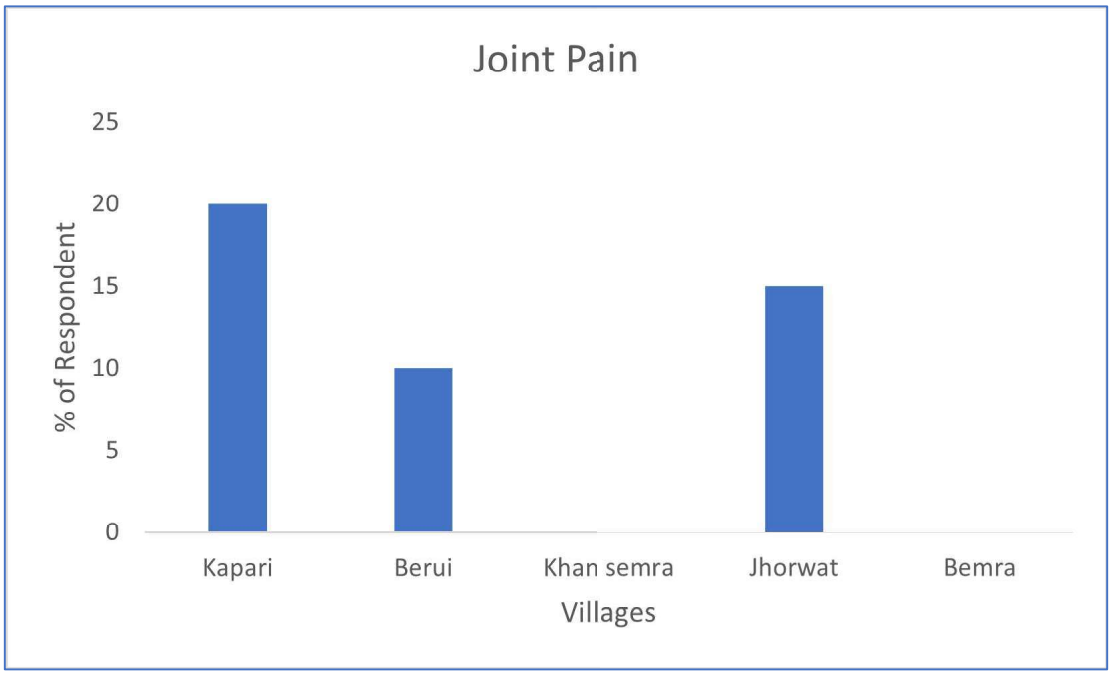


Health-related information was collected from Community Health Centres (CHCs), local healthcare facilities, and ASHA workers serving the study villages. Medical records and health-related observations were reviewed to identify commonly reported diseases and seasonal illness trends among the local population.

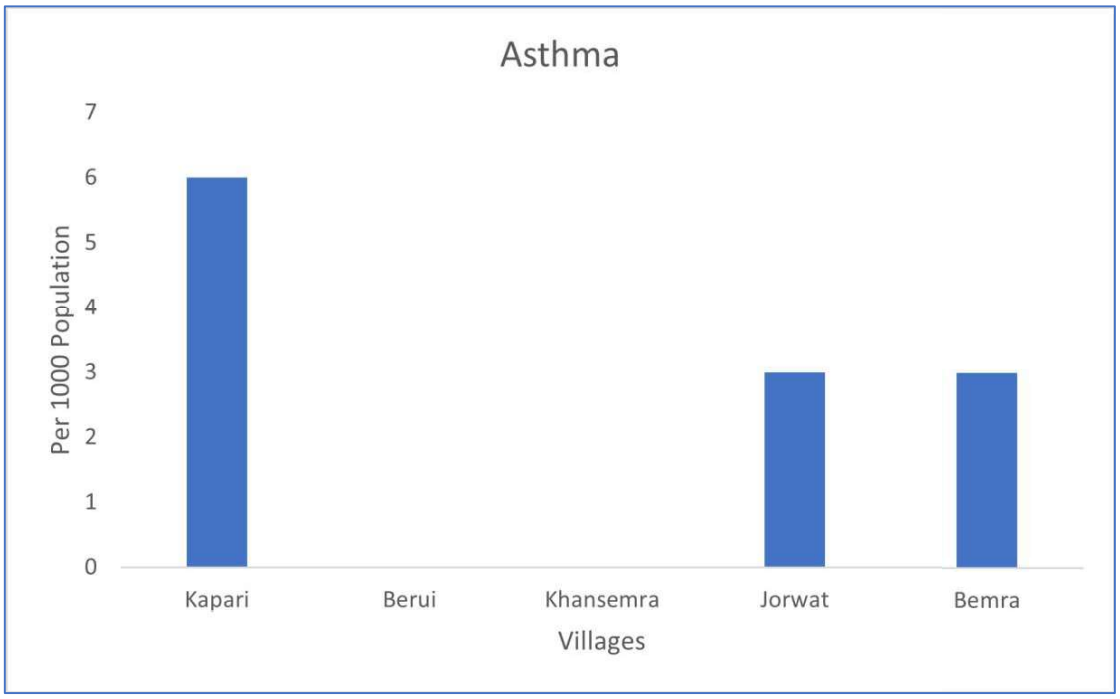
Particular emphasis was given to respiratory disorders such as asthma, chronic cough, breathlessness, and tuberculosis-like symptoms because these conditions are commonly associated with prolonged exposure to airborne particulate matter and industrial dust. Other commonly reported health complaints included gastrointestinal diseases, skin irritation, eye problems, joint pain, fever, weakness, and waterborne diseases.



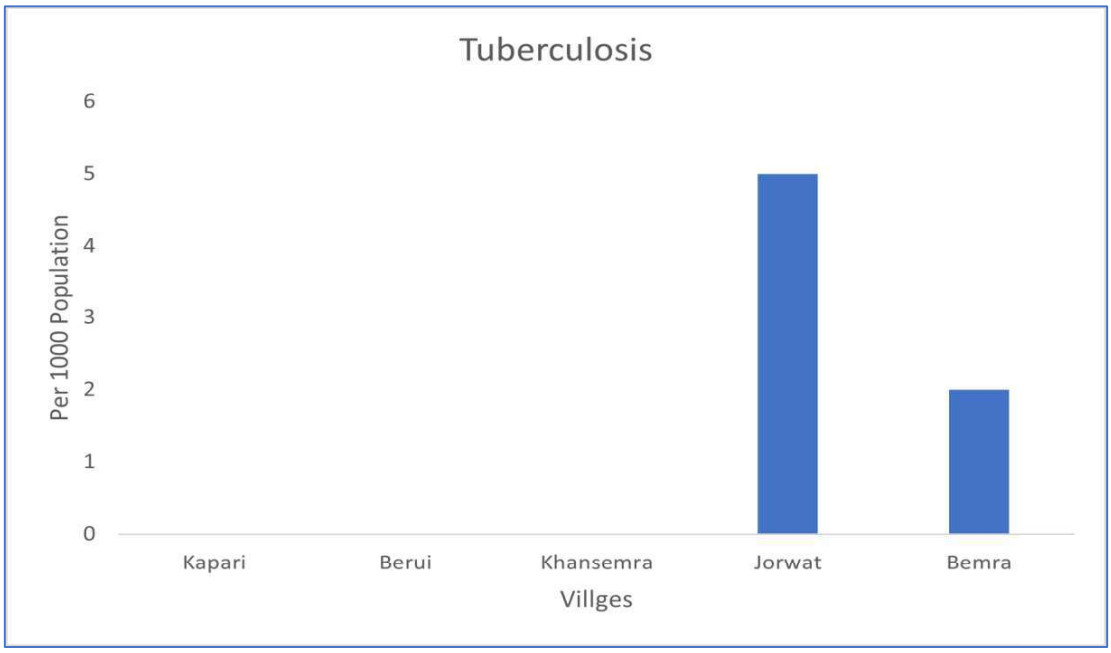
The graphical representation indicates that typhoid was the most commonly reported disease among the surveyed population, affecting approximately 32 individuals per 1000 population. Gastrointestinal disturbances were also highly prevalent, with about 28 cases per 1000 population, followed by malaria with nearly 25 cases per 1000 population. Flu showed the lowest prevalence among the major diseases, accounting for around 14 cases per 1000 population.



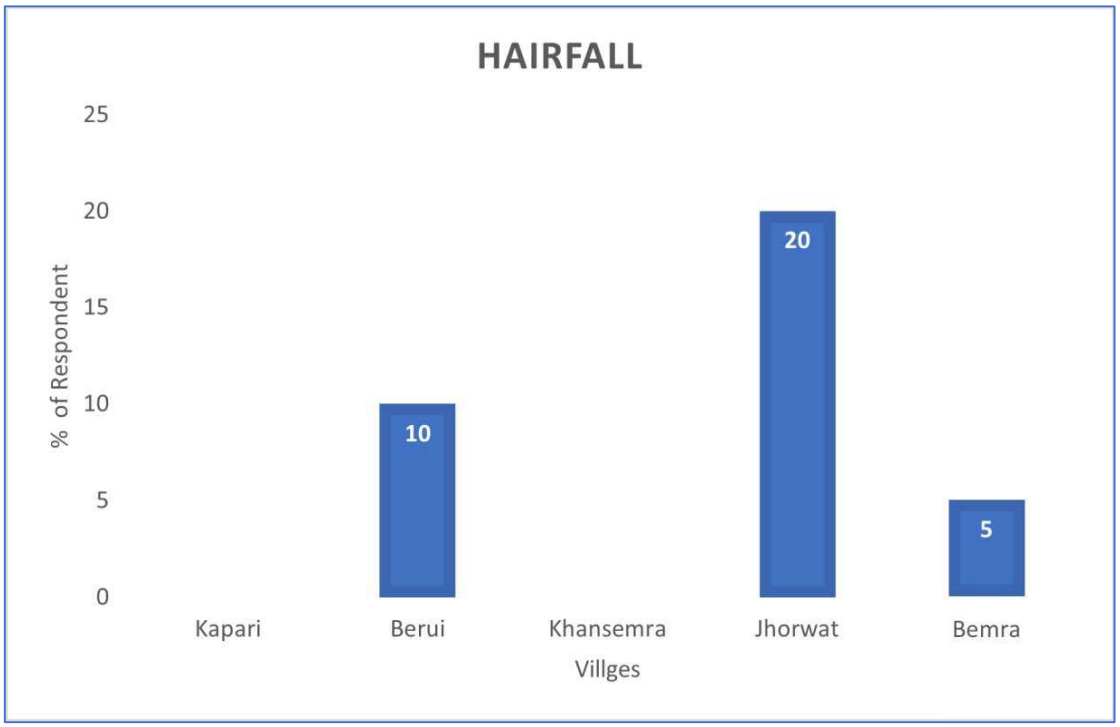
The data on joint pain indicates that Kapari had the high percentage of respondents suffering from joint pain at approximately 20%, followed by Jorwat with 15% and Berui with 10%. No significant cases were reported from Khansemra and Bemra. These findings may suggest occupational strain or aging population.



The asthma distribution among villages reveals that Kapari recorded the highest prevalence, with nearly 6 cases per 1000 population. Jorwat and Bemra each reported around 3 cases per 1000 population, while Berui and Khansemra showed no reported asthma cases. the observed cases are more likely associated with lifestyle habits or cooking fuel used.



The prevalence of tuberculosis was highest in Jorwat village, with approximately 5 cases per 1000 population. Bemra reported around 2 cases per 1000 population, whereas Kapari, Berui, and Khansemra showed no reported tuberculosis cases. The higher occurrence in Jorwat may reflect poor living conditions or overcrowding.



Hairfall-related complaints were prominently observed in Jorwat village, where about 20% of respondents reported the issue. Berui showed nearly 10% prevalence, while Bemra recorded around 5%. No cases were reported in Kapari and Khansemra. The variation in hairfall prevalence may be associated with differences in water quality, nutrition, or lifestyle factors.

5.5. Sample Testing

Ion Chromatography





Environmental sample testing constituted an important scientific component of the epidemiological study. Groundwater samples were collected from handpumps, wells, and RO systems located within the five villages. The collected samples were tested at the **Central Instrumental Facility (CIF), IIT (BHU), Varanasi**, using advanced analytical instruments and standardized laboratory procedures.

Laboratory analysis included assessment of physicochemical parameters, cations, anions, and heavy metals such as mercury (Hg), iron (Fe), magnesium (Mg), nitrate, and other contaminants. The testing process helped identify villages with comparatively higher contamination levels and possible environmental influence from ash ponds and industrial activities.

Laboratory Test Results of Water Samples

- **Kapari Village**

The analysis of water samples collected from Kapari village showed that most physicochemical parameters and heavy metals were within the permissible limits prescribed by CPCB and WHO guidelines. Chloride, nitrate, sulphate, magnesium, iron, copper, mercury & zinc concentrations in both borewell and handpump water samples were found within acceptable limits.

- **Khan Semra Village**

Water samples collected from Khan Semra village showed that most analysed anions, cations, and heavy metals were within permissible limits. Sodium, potassium, calcium, magnesium, chloride, and sulphate concentrations were observed within acceptable ranges in both handpump samples. Heavy metals including aluminium, copper mercury & zinc were found either within permissible limits or below detectable levels.

- **Bemra Village**

The laboratory analysis of water samples from Bemra village indicated that most measured parameters were within permissible limits. Magnesium, chloride, sulphate, zinc and copper concentrations remained within acceptable standards in well, RO, and handpump water samples. Most heavy metals were either absent or present in trace concentrations below permissible levels. RO-treated water showed comparatively lower dissolved constituent concentrations than untreated water sources.

- **Berui Village**

Water quality analysis of Berui village demonstrated that most physicochemical parameters and heavy metals were within permissible limits. Chloride, nitrate, sulphate, magnesium, zinc, copper and uranium concentrations in handpump, RO, and well water samples were found within acceptable standards. Heavy metals such as aluminium and cadmium were mostly below detectable levels.

- **Jorwat Village**

The analysis of water samples collected from Jorwat village revealed that most measured anions, cations, and heavy metals were within permissible limits. Chloride, nitrate, sulphate, fluoride, magnesium, iron, copper, zinc, lead, mercury and uranium concentrations in both handpump and RO water samples were found within acceptable standards.

6. Epidemiological Inference

Epidemiological Interpretation of the Study Area

The epidemiological assessment of the five villages Kapari, Berui, Khansemra, Jorwat, and Bemra indicates that the overall groundwater quality is within permissible limits according to the CIF laboratory water quality analysis. Most physico-chemical parameters were found below the standard permissible limits, suggesting that the groundwater is generally safe for domestic consumption. The increasing use of RO-treated water and handpump water among the population further supports the availability of comparatively safe drinking water sources in the study area.

The survey results show that a major proportion of the population depends on RO water and handpump water for drinking purposes, while the use of untreated well water is comparatively low. This pattern reflects growing public awareness regarding safe drinking water practices. CSR activities such as health awareness programmes, plantation drives, fisheries culture development, and community welfare initiatives have also contributed positively toward environmental improvement and public health conditions in the villages.

The climatic parameters, including average annual rainfall and wind speed, appear to have a positive environmental influence in the region. Adequate rainfall supports groundwater recharge and dilution of contaminants, while favorable wind conditions help in dispersal of dust and air pollutants, thereby reducing environmental stress.

Although certain health problems such as typhoid, gastrointestinal disturbances, malaria, asthma, tuberculosis, hair fall, and joint pain were observed in some villages, the epidemiological findings suggest that these conditions are more strongly associated with lifestyle habits and behavioral factors rather than poor water quality. High prevalence of

smoking and alcohol consumption among the adult population, especially males, may contribute significantly to respiratory illnesses such as asthma and tuberculosis, as well as general health deterioration. Similarly, cooking practices involving wood fuel in several households may increase indoor air pollution exposure, which can aggravate respiratory disorders.

The occurrence of gastrointestinal diseases and typhoid may also be influenced by personal hygiene, sanitation practices, food contamination, and seasonal infections rather than direct groundwater contamination, since water quality parameters remained within permissible standards. Villages with comparatively lower sanitation facility coverage may experience a greater burden of communicable diseases.

Overall, the epidemiological investigation indicates that the study area does not exhibit strong evidence of water-quality-related health hazards. Instead, the observed clinical conditions are likely linked to socio-economic conditions, smoking, alcohol consumption, indoor air pollution, sanitation status, occupational exposure to dust, and other lifestyle-related factors. Continuous health awareness programmes, promotion of hygienic practices, reduction of smoking and alcohol consumption, increased sanitation coverage, and sustained use of treated drinking water are recommended to further improve community health status in the study area.

7. Recommendations

- Public awareness programs should be conducted to encourage greater use of RO-treated water for drinking and cooking purposes.
- Take focused initiatives for green zone expansion be implemented to enhance environmental sustainability.
- Conduct continuous community awareness programs on safe drinking water, sanitation, pollution control, smoking, and preventive healthcare practices.
- Regular maintenance & change Resin / membrane in RO systems.

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