

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH AT NEW DELHI
ORIGINAL APPLICATION NO. 617 OF 2022**

IN THE MATTER OF:

Pushpender ...Applicant

Versus

State of U.P. & Ors. ...Respondents

INDEX

SR. NO.	PARTICULARS	PAGES
1.	Additional reply on behalf of Respondent No.4/Prayagraj Power Generation Company Limited with affidavit.	1-30
2.	ANNEXURE R4/1 A true copy of the letter dated 22.08.2009 issued by PPGCL to MoEF&CC <i>qua</i> the break-up of land area.	31-33
3.	ANNEXURE R4/2 (COLLY.) The true copies of the Test Reports dated 20.02.2023 and 29.03.2023 <i>qua</i> the STP Outlet and ETP Outlet, respectively.	34-36
4.	ANNEXURE R4/3 (COLLY.) The true copies of the Photographs of the water meters, the water meter in the ETP and water in STP.	37
5.	ANNEXURE R4/4 A true copy of the Letter dated 07.02.2023 issued by PPGCL to UPPCB along with the Calibration Certificate.	38-51
6.	ANNEXURE R4/5 A true copy of the letter dated 28.11.2022 along with the half yearly compliance report.	52-109
7.	ANNEXURE R4/6 (COLLY.) The true copies of the letters issued by PPGCL to UPPCB on 28.01.2021 and 29.04.2023 <i>qua</i> the CTO conditions and quarterly fly ash utilization report from January, 2023 to March, 2023, respectively.	110-136

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|------------|--|----------------|
| 8. | ANNEXURE R4/7
A true copy of the letter dated 23.01.2023 along with Report. | 137-206 |
| 9. | ANNEXURE R4/8
A true copy of the letter dated 12.09.2020 issued by PPGCL to UPPCB. | 207 |
| 10. | ANNEXURE R4/9
A true copy of the letter dated 29.04.2023 along with the Report. | 208-242 |
| 11. | ANNEXURE R4/10 (COLLY.)
The true copy of the environment statement for FY 2021 - 2022. | 243-247 |
| 12. | ANNEXURE R4/11
The Photographs exhibiting the greenbelt area around the boundary of PPGCL. | 248 |
| 13. | ANNEXURE R4/12
A true copy of the Letter dated 28.03.2023 along with the Form 10 submitted by PPGCL to UPPCB. | 249-252 |
| 14. | ANNEXURE R4/13
A true copy of the Noise Test Report dated 03.04.203. | 253 |
| 15. | ANNEXURE R4/14
A true copy of the Test Reports pertaining to mercury and other heavy metals in the bottom ash. | 254-255 |
| 16. | ANNEXURE R4/15
The Photographs of the ambient air display. | 256 |
| 17. | ANNEXURE R4/16
A true copy of the Environment Expenditure during FY 2022-2023. | 257 |
| 18. | ANNEXURE R4/17 (COLLY.)
The true copies of the Radioactivity Report and Fly Ash Report dated 24.11.2020 and 02.01.2023 respectively. | 258-262 |
| 19. | ANNEXURE R4/18
The Photographs of the Cooling Towers as well as the Effluent Treatment Plant. | 263-265 |

20.	ANNEXURE R4/19 A true copy of the PPGCL Environment Policy dated 01.04.2022.	266
21.	ANNEXURE R4/20 The Photographs of the percolation pond developed and maintained by PPGCL.	267-268
22.	ANNEXURE R4/21 Photographs of the STP installed/developed by PPGCL in compliance with its EC obligations.	269-270
23.	ANNEXURE R4/22 A true copy of the Letter dated 09.05.2014 issued by PPGCL to the Regional Office of MoEF&CC at Lucknow along with the relevant extract of the detailed fire protection measures.	271-280
24.	ANNEXURE R4/23 True copies of the Report exhibiting the sulphur content in the coal from the period of October, 2022 to March, 2023.	281-295
25.	ANNEXURE R4/24 A true copy of the Report dated 29.04.2023.	296-297
26.	ANNEXURE R4/25 A true copy of the PPGCL CSR Policy.	298-300
27.	ANNEXURE R4/26 Photographs of the Dust Extraction System and Dust Separation System.	301-304
28.	ANNEXURE R4/27 Photographs exhibiting the operationalisation of the RO plant.	305-308
29.	ANNEXURE R4/28 A true copy of the Purchase Order dated 18.07.2023 placed by the PPGCL upon the Independent Agency.	309-312
30.	ANNEXURE R4/29 (COLLY.) True copy of the certificate of accreditation issued by NABTCL in favour of the Testing Agency dated 18.09.2021 as well as the letter of recognition issued by CPCB to the Testing Agency dated 17.02.2022.	313-315

31. **ANNEXURE R4/30**
A true copy of the Report dated 06.07.2023. **316-317**
32. **ANNEXURE R4/31**
Photographs demonstrating skill building and livelihood programs provided by PPGCL. **318-319**
33. **ANNEXURE R4/32**
Photographs demonstrating exhibiting PPGCL's contribution to the education sector. **320**
34. **ANNEXURE R4/33**
Photographs demonstrating the health and sanitation services provided by PPGCL. **321-322**
35. **ANNEXURE R4/34**
Photographs demonstrating PPGCL's initiative towards social and financial inclusion of the locals. **323-324**

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Place: New Delhi

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH AT NEW DELHI
ORIGINAL APPLICATION NO. 617 OF 2022**

IN THE MATTER OF:

Pushpender

...Applicant

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...Respondents

**ADDITIONAL REPLY ON BEHALF OF RESPONDENT NO. 4/PRAYAGRAJ
POWER GENERATION COMPANY LIMITED**

MOST REPECTFULLY SHOWETH:-

I. CONSPECTUS:-

1. The present Letter Petition has been filed by Mr. Pushpender ("**Applicant**") before this Hon'ble Tribunal through e-mail whereby the Applicant has alleged that M/s Prayagraj Power Generation Company Limited ("**PPGCL**" / "**Project Proponent**" / "**Respondent No. 4**") and M/s. Ultratech Cement Limited ("**Respondent No. 5**") are polluting the environment due to the storage of cement brought by trucks to the village *Berni Post Bemra Shankargadh, Teshil Bara* District Prayagraj, Uttar Pradesh ("**UP**"). In addition to this, the Applicant has also alleged that on account of the Project operations of PPGCL and Respondent No. 5, the water near the Project site is being contaminated thereby rendering it unfit for consumption.

2. This Hon'ble Tribunal, *vide* its order dated 29.09.2022 upon receipt of the captioned Letter Petition filed by the Applicant, took *Suo Moto* cognizance of the allegations made thereunder and accordingly registered the same as Original Application ("OA") bearing No. 617 of 2022.
3. The captioned matter was listed for hearing on 24.04.2023 before this Hon'ble Tribunal, wherein this Hon'ble Tribunal issued certain directions *qua* PPGCL. The relevant extract of the order dated 24.04.2023 is reproduced hereinbelow for the ease of reference:-

"7. Even today learned Counsel for respondent no. 4-M/s PPGCL is referring to the letter written to the concerned SDM while conceding that even today RO is not operational.

8. Respondent no. 4-M/s PPGCL and the District Magistrate, Prayagraj are directed to take requisite action immediately on receipt of a copy of this order for making the RO functional by carrying out all requisite measures including change of transformer, as may be required, with the help of/by involving the concerned governmental/private agencies and to send compliance report in this regard within seven days by email at judicial-ngt@gov.in preferably in the form of searchable PDF/OCR supported PDF and not in the form of Image PDF...

*9. **Both the Project Proponents are directed to file additional replies giving in detail in tabular form the compliance status with respect to each EC/CTE/CTO consent conditions and also the activities carried out by them in discharge of their corporate social responsibility with relevant documents.***

[Emphasis Supplied]

4. It is pertinent to highlight that PPGCL in compliance with the directions issued by this Hon'ble Tribunal *vide* its order dated 24.04.2023 has filed a Compliance Affidavit on 01.05.2023, wherein it has categorically stated that it has successfully operationalised the RO Plant which it had set up under its Corporate Social Responsibility ("CSR"). The directions of the

Hon'ble Tribunal to the said effect thus stand complied with in their entirety.

5. *Vide* the present Additional Reply, PPGCL intends to fully and completely demonstrate its compliances *qua* its Environmental Clearance (“EC”), Consent to Establish (“CTE”), Consent to Operate (“CTO”) and its CSR obligations.

Re: PPGCL’s Compliance qua the EC/ CTE/CTO conditions:-

6. It is submitted herein that PPGCL has duly complied with its EC/ CTE/CTO conditions. The same is evident from a bare perusal of the table provided below:-

S. No.	Stipulated Condition	Compliance by PPGCL
1.	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.	It is submitted that PPGCL has <i>vide</i> its letter dated 22.08.2009 to Ministry of Environment, Forest and Climate Change (“MoEF&CC”) had submitted an area wise break-up of land optimised for the Power Plant. A true copy of the letter dated 22.08.2009 issued by PPGCL to MoEF&CC <i>qua</i> the break-up of land area is marked hereto and annexed as ANNEXURE R4/1 .
2.	The domestic effluent should be used in the treatment plants so that the same is in strict conformity with the	PPGCL has maintained the said standards which is crystal clear from a perusal of the Test Report dated 20.02.2023 issued <i>qua</i> the testing conducted of the

	appropriate Notifications issued by the MoEF&CC	<p>Sewage Treatment Plant (“STP”) outlet.</p> <p>Similarly, PPGCL further relies on the testing report dated 29.03.2023 issued by M/s Mitra S K Lab <i>qua</i> the testing conducted of the Effluent Treatment Plant (“ETP”) outlet. The true copies of the Test Reports dated 20.02.2023 and 29.03.2023 <i>qua</i> the STP Outlet and ETP Outlet, respectively, are marked hereto and annexed as ANNEXURE R4/2 (COLLY.).</p>
3.	An industry must install Electro Magnetic Flow meter at water withdrawal source, inlet of ETP and STP. The industry must also maintain a logbook of flow meter reading.	<p>PPGCL has on a very regular basis maintained the records of the STP and ETP. The same is also evident from a bare perusal of the Images of the Water Meters installed by PPGCL at the plant premises.</p> <p>The true copies of the Photographs of the water meters, the water meter in the ETP and water in STP are marked hereto and annexed as ANNEXURE R4/3 (COLLY.).</p>
4.	The industry is obligated to maintain an Online Continuous Effluent Monitoring System	PPGCL has installed the requisite technology <i>qua</i> the OCEMS. It regularly submits the data to the Uttar Pradesh

	<p>("OCEMS"). The data of the same shall be shared to the Central Pollution Control Board ("CPCB"). The industry must calibrate the OCEMS system every half yearly through recognised agency and calibration certificate should be submitted to the State Pollution Control Board ("SPCB")</p>	<p>Pollution Control Board ("UPPCB"). The same is evident from a perusal of the OCEMS calibration report submitted by PPGCL to UPPCB <i>vide</i> its letter dated 07.02.2023 .</p> <p>A true copy of the Letter dated 07.02.2023 issued by PPGCL to UPPCB along with the Calibration Certificate is marked hereto and annexed as ANNEXURE R4/4.</p>
5.	<p>The industry is bound to comply with the notifications issued by the MoEF&CC and to send the compliance report to the UPPCB.</p>	<p>PPGCL has been submitting the compliance Report <i>qua</i> the EC to UPPCB. PPGCL had issued a letter dated 28.11.2022 to UPPCB, marking a copy of the same to the CPCB wherein it had annexed the half yearly report for the period of April, 2022 to September, 2022.</p> <p>A true copy of the letter dated 28.11.2022 along with the half yearly compliance report is marked hereto and annexed as ANNEXURE R4/5.</p>
6.	<p>The industry has to comply with the MoEF&CC Fly Ash Notification No. S.O. 254 (E) dated 25.01.2016. The industry also has to within</p>	<p>PPGCL has complied with the said condition in its letter and spirit. The same is evident from a perusal of the letter dated 29.04.2023 issued by PPGCL to</p>

	<p>one month shall submit a detailed proposal for fly ash utilization. A detailed Fly Ash disposal shall be submitted to UPPCB on quarterly basis.</p>	<p>UPPCB. <i>Vide</i> the said letter PPGCL has submitted a quarterly fly ash utilisation report from the month of January, 2023 to March, 2023. PPGCL had issued a letter dated 28.01.2021 to UPPCB wherein it had submitted a point wise compliance status of the CTO condition.</p> <p>The total Fly Ash utilized by PPGCL from January, 2023 to March, 2023 is 768822 (in MT). The true copies of the letters issued by PPGCL to UPPCB on 28.01.2021 and 29.04.2023 <i>qua</i> the CTO conditions and quarterly fly ash utilization report from January, 2023 to March, 2023, respectively is marked hereto and annexed as ANNEXURE R4/6 (COLLY.).</p>
7.	<p>The industry has to undertake hydrological studies every six months to assess the impact of the ground water especially around the ash dyke area.</p>	<p>PPGCL hereby submits that it has been complying with the said mandate in every manner possible. PPGCL has <i>vide</i> its letter dated 23.01.2023 to UPPCB submitted a post monsoon hydrology report.</p>

		A true copy of the letter dated 23.01.2023 along with Report is marked hereto and annexed as ANNEXURE R4/7 .
8.	The industry is obligated to install PTZ cameras at the Ash Water Recovery System (“AWRS”). The re-circulation points for surveillance of operation within 1 month and shall provide the URL and password to the board.	PPGCL has installed the required PTZ cameras at the AWRS. For the same, it had <i>vide</i> its letter dated 12.09.2020 shared the URL and the password to UPPCB. A true copy of the letter dated 12.09.2020 issued by PPGCL to UPPCB is marked hereto and annexed as ANNEXURE R4/8 .
9.	The ground water shall be monitored by any National Accreditation Board for Testing and Calibration Laboratories (“NABL”) accredited laboratory on quarterly basis nearby the ash dykes and analysis report with respect to heavy metals shall be sent to UPPCB.	PPGCL has complied with the said condition. PPGCL has <i>vide</i> its letter dated 29.04.2023 to UPPCB has shared the quarterly stack, ambient air and ground water monitoring report for the period of January, 2023 to March, 2023. A true copy of the letter dated 29.04.2023 along with the Report is marked hereto and annexed as ANNEXURE R4/9 .
10.	The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project	PPGCL has readily complied with the said condition by supplying the environment statement for FY 2021-2022. It is further pertinent to mention

	<p>proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 (“Rules”), 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&CC by e-mail.</p>	<p>herein that PPGCL has <i>vide</i> its letter dated 14.09.2022 already submitted the environment statement as per Form V of the Rules.</p> <p>PPGCL also got conducted the coal tests from the period of October, 2022 to March, 2023.</p> <p>The true copy of the environment statement for FY 2021 - 2022 is marked hereto as ANNEXURE R4/10 (COLLY.).</p>
11.	<p>The industry shall develop and maintain green belt as per the guidelines issued by the Board <i>vide</i> office order dated 16.02.2018. The proposal for plantation in the coming monsoon shall be submitted within 01 month.</p>	<p>It is submitted herein that PPGCL being a diligent entity has always adhered to the rules and regulations <i>qua</i> the safety and well-being of the environment at all times.</p> <p>In this regard it is apposite to mention herein that PPGCL has developed and maintaining a green belt.</p> <p>PPGCL has until September 2022 has already planted 3,34,060 saplings for the purposes of the development of the green belt and approximately 20,520 saplings were also planted during the</p>

		<p>monsoon season FY 2022-2023.</p> <p>It is further pertinent to note that PPGCL during the aforesaid monsoon season has developed land for planting saplings. The following are the species planted in the area by PPGCL:-</p> <ul style="list-style-type: none">(a) Neem,(b) Seesham,(c) Karanj,(d) Siris,(e) Pipal,(f) Bargad,(g) Bamboo,(h) Arjun,(i) Kadam,(j) Gulmohar,(k) Alstonia,(l) Imli,(m) Amla,(n) Mango,(o) Ashoka,(p) Guava and(q) Bel, <p>among other flowering and ornamental saplings. Furthermore, PPGCL being a diligent and a committed entity, is undertaking the requisite steps towards planting more</p>
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		<p>saplings in the current monsoon season.</p> <p>The Photographs exhibiting the greenbelt area around the boundary of PPGCL is annexed hereto and marked as ANNEXURE R4/11.</p>
12.	<p>The industry shall comply with various provisions of Hazardous and Other waste (Management & Transboundary Movement) Rules, 2016. Detail of hazardous waste disposal shall be submitted in Form-10 (as per Rule 19).</p>	<p>It is submitted herein that PPGCL has already submitted the Form 10 under Rule 19 of the Hazardous and Other waste (Management & Transboundary Movement) Rules, 2016 <i>vide</i> its letter dated 28.03.2023 to UPPCB.</p> <p>A true copy of the letter dated 28.03.2023 along with the Form 10 submitted by PPGCL to UPPCB is marked hereto and annexed as ANNEXURE R4/12.</p>
13.	<p>Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited of 75 dB (A). For people working in the high noise area, requisite personal protective equipments like ear-plugs/ear muffs etc. shall be provided. Workers engaged</p>	<p>PPGCL has provided to all its employees working in the high noise area with the requisite equipments such as the earplugs, ear muffs etc.</p> <p>PPGCL has further, got a noise monitoring test inside the plant (turbine area) on 03.04.2023.</p> <p>A bare perusal of the said report categorically indicates that the noise emanated in day time</p>

	<p>in noisy areas such as turbine areas, air compressors, etc. shall be periodically examined to maintain audio metric record and for treatment for any hearing loss including shifting to non-noisy/less noisy areas.</p>	<p>ranges to around 71.6 decibels (db) and at night the noise is around 67.1 db that is within the permissible limits.</p> <p>A true copy of the Noise Test Report dated 03.04.203 is marked hereto and annexed as ANNEXURE R4/13.</p>
14.	<p>The industry must collect the fly ash in dry form and storage facility (silos) shall be provided. The industry must ensure 100% fly ash utilization 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.</p>	<p>It is submitted that PPGCL has in order to comply with the said mandate has undertaken the following:-</p> <ul style="list-style-type: none"> (a) Construction of the RCC Silo's for storage of dry fly ash from Electrostatic Precipitator ("ESP") hoppers. (b) Fly Ash being utilized by using the same in cement and brick manufacturing. (c) Fly Ash utilization in low lying area has been permitted <i>vide</i> the MoEF&CC OM dated 28.08.2019 <p>In this regard, PPGCL on a regular basis monitors the mercury and other heavy metals in the bottom ash by third party. Test Reports in this</p>

		regard is marked hereto and annexed as ANNEXURE R4/14 .
15.	The industry must upload the status of compliance of the stipulated EC conditions, including results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely SPM, RSPM SO ₂ , NO _x (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	<p>It is submitted herein that PPGCL has always complied with the stipulated terms and conditions under the EC. It has also submitted the Compliance report of the EC conditions. The last report in this regard was sent on 28.11.2022. (Kindly refer ANNEXURE R4/5)</p> <p>As far as the data of the air stack and ambient air is concerned, the same is displayed at the main gate of the Plant.</p> <p>The Photographs of the ambient air display is marked hereto and annexed as ANNEXURE R4/15.</p>
16.	The industry must ensure separate funds for implementation of the 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	<p>PPGCL has maintained separate funds for environmental protection measures.</p> <p>A true copy of the Environment Expenditure during FY 2022-2023 is marked hereto and annexed as ANNEXURE R4/16.</p>

	measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	
17.	A long term study of radio activity and heavy metals contents on coal to be used for the power plant shall be carried through a reputed institute and results thereof analysed 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.	<p>It is submitted herein that PPGCL got the radioactivity tests conducted. The said tests were carried out by BRIT-BARC, Mumbai and the results of the same were communicated <i>vide</i> Report dated 24.11.2020 (“Radioactivity Report”).</p> <p>According to the said Report, the samples of coal, fly ash and bottom ash was collected.</p> <p>The result of the report state the following:-</p> <p><i>“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.”</i></p> <p><i>(Emphasis Supplied)</i></p> <p>The aforesaid categorically makes it clear that there is no radioactivity in the plant premises.</p> <p>PPGCL further got the Fly Ash (White and Black) testing and the same were communicated</p>

		<p><i>vide</i> Report dated 02.01.2023 (“Fly Ash Report”).</p> <p>The true copies of the Radioactivity Report and Fly Ash Report dated 24.11.2020 and 02.01.2023 respectively, are annexed hereto and marked as ANNEXURE R4/17 (COLLY.).</p>
18.	<p>The industry must ensure the installation of closed cycle cooling system with natural draft. For the same, cooling towers shall be installed. The effluents shall be treated as per the prescribed norms. Cycles of Concentration (“CoC”) of 5 shall be provided.</p>	<p>It is submitted that PPGCL has installed the Cooling towers, the effluents are being treated and also the CoC is being maintained.</p> <p>PPGCL has further installed effluent treatment plant for ensuring that the effluent is treated in accordance with its environmental compliances.</p> <p>The Photographs of the Cooling Towers as well as the Effluent Treatment Plant is annexed hereto and marked as ANNEXURE R4/18.</p>
19.	<p>The industry 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</p>	<p>It is submitted herein that PPGCL has on 01.04.2022 introduced the Environment Policy wherein compliance and adherence of various steps to ensure its commitment to a</p>

	<p>policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.</p>	<p>clean, safe and a healthy environment.</p> <p>A true copy of the PPGCL Environment Policy dated 01.04.2023 is marked hereto and annexed as ANNEXURE R4/19.</p>
20.	<p>The industry must ensure the development of a rain water harvesting system/ infrastructure. The 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.</p>	<p>It is submitted herein that PPGCL has complied with the said condition. PPGCL has also consulted the Central Ground Water Authority (“CGWA”), Prayagraj Office, for the purposes of developing the rain water harvesting system.</p> <p>It is pertinent to note that pursuant to the recommendations made by the CGWA, PPGCL has installed four nos. of Piezometers for the very purpose of monitoring the ground water and two numbers of percolation pond have also been constructed for rain water harvesting.</p> <p>The Photographs of the percolation pond developed and maintained by PPGCL are marked hereto and annexed as ANNEXURE R4/20.</p>

21.	The industry must maintain an STP. The treated sewage shall be used for raising green belt/ plantation.	It is submitted that PPGCL has installed/ developed an STP for treating the sewage. It is further submitted that the treated sewage is used in the raising of the greenbelt/plantation. Photographs of the STP installed/developed by PPGCL in compliance with its EC obligations are annexed hereto and marked as ANNEXURE R4/21.
22.	The industry must maintain adequate safety measures in the plant premises to check/ minimise spontaneous fires in coal yards, especially during summer season. Copy of these measures with full details along with location plan layout shall be submitted to the Ministry as well as to the Regional Office of the MoEF&CC at Lucknow.	It is submitted that PPGCL has taken adequate steps <i>qua</i> the fire safety and protection measures within the plant premises. In this regard, PPGCL <i>vide</i> its letter dated 09.05.2014 to the Regional Office, MoEF&CC at Lucknow had submitted detail fire protection plan at the coal handling area of PPGCL. A true copy of the Letter dated 09.05.2014 issued by PPGCL to the Regional Office of MoEF&CC at Lucknow along with the relevant extract of the detailed fire protection measures is annexed hereto and marked as ANNEXURE R4/22.

23.	The sulphur and ash content in the coal to be used in the project shall not exceed 0.5% and 34% respectively at any given time.	It is submitted that the average ash percentage in coal from the period of October, 2022 to March, 2023 was within 34% and the sulphur content was within the 0.5% prescribed limit (i.e. 0.42%). True copies of the Report exhibiting the sulphur content in the coal from the period of October, 2022 to March, 2023 is annexed hereto and marked as ANNEXURE R4/23.
24.	The industry shall not extract ground water for the project work at any point in time.	PPGCL submits that it procures water from the Yamuna River through pipeline.
25.	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.	It is submitted that PPGCL on 28.04.2023 got the liquid fuel examined. The sulphur content was below the prescribed limit. The same is evident from a perusal of the Report dated 29.04.2023. A true copy of the Report dated 29.04.2023 is annexed hereto and marked as ANNEXURE R4/24.

26.	The industry must provide first-aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	It is submitted that this condition was given at the stage of construction. PPGCL had duly complied with the said condition at the said stage, itself.
27.	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	<p>It is submitted that PPGCL, during the Financial Year 2022-2023, had allocated an amount of Rs. 6.17 crores under various heads for the CSR activities. The same has been incurred on the following areas:-</p> <ul style="list-style-type: none"> (a) Education, (b) Health and Sanitation, (c) Skill building, (d) Social and financial inclusion, <p>The aforesaid is in strict adherence to the PPGCL CSR Policy.</p> <p>In this regard, a true copy of the PPGCL CSR Policy is annexed hereto and marked as ANNEXURE R4/25.</p> <p>It is further pertinent to note that PPGCL has also constructed and also repaired road of 6km road for villagers for a better connectivity to DAV school and the PPGCL Healthcare &</p>

		<p>Wellness Centre hospital which are within a vicinity of 5 KM .</p> <p>The total CSR expenditure incurred by PPGCL is presented in a tabular form as follows:-</p> <table border="1"> <thead> <tr> <th colspan="3">CSR Expenditure FY 22-23</th> </tr> <tr> <th>S. No.</th> <th>Thrust Area/ Programs</th> <th>Amount (Lakh)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Education</td> <td>141.04</td> </tr> <tr> <td>2.</td> <td>Health and Sanitation</td> <td>143.85</td> </tr> <tr> <td>3.</td> <td>Skilling for Livelihood</td> <td>78.3</td> </tr> <tr> <td>4.</td> <td>Social and Financial Inclusion</td> <td>236.98</td> </tr> <tr> <td colspan="2">Total</td> <td>600.17</td> </tr> </tbody> </table>	CSR Expenditure FY 22-23			S. No.	Thrust Area/ Programs	Amount (Lakh)	1.	Education	141.04	2.	Health and Sanitation	143.85	3.	Skilling for Livelihood	78.3	4.	Social and Financial Inclusion	236.98	Total		600.17
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28.	<p>The industry 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</p>	<p>PPGCL was duly advertised in various newspapers at the time of its commissioning.</p> <p>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.</p>																					

	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	
29.	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards	It is submitted that PPGCL has set up an independent and a dedicated Environmental department of 4 officers who are qualified professionals having Masters in Environment Science and Environment Engineering.
30.	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.	It is submitted herein that the Financial closure was obtained on 06.07.2010 and the construction activity for the project was started in Aug. 2010. All the three units <i>qua</i> PPGCL have been commissioned and are in operation.
31.	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	It is submitted that PPGCL at every point is committed to extend full support and cooperate with the scientists and officers and any other personnel from SPCB or CPCB.

	monitoring the compliance of environmental status.	
32.	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.	It is submitted that PPGCL has installed a total of 265 kW roof top solar power at school and hospital roof and roof top solar heater at guest houses. It has further installed Solar based street and garden lights in the vicinity.
33.	Space for FGD shall be provided for future installation as may be required.	PPGCL has duly maintained a space for FGD which has been kept exclusively for future installation. FGD installation civil work is in progress.
34.	Fugitive emissions shall be controlled to prevent impact on agricultural or non-agricultural land in the vicinity, if any.	PPGCL submits that it has duly installed the Dust extraction and dust suppression system has for the control of fugitive emission. Photographs of the Dust Extraction System and Dust Separation System are annexed hereto and annexed as ANNEXURE R4/26.
35.	Fly ash shall not be used for agricultural purpose. No mine void filling will be undertaken as an option for	It is submitted that the MoEF&CC <i>vide</i> its OM dated 28.08.2019 has permitted the TPPs to use fly ash in

	<p>ash utilization without adequate lining of mine with suitable media so that no leachate shall take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from a reputed institute and accordingly clay lining of adequate thickness shall be provided. This shall be carried out in close co-ordination with State Pollution Control Board who shall ensure that clay lining of appropriate thickness is provided.</p>	<p>abandoned mines/ low lying areas/ soil conditioner in the agriculture.</p>
36.	<p>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.</p>	<p>PPGCL due to its operations in no manner is disturbing any water body/bodies within or around its vicinity.</p>
37.	<p>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</p>	<p>It is submitted that PPGCL has a CSR committee for periodic monitoring of CSR activities.</p>

	activities shall also be evaluated by an independent external agency. This evaluation shall be both concurrent and final.	
38.	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.	It is submitted that PPGCL has established an environmental cell manned with qualified professional having Masters in Environment Science and Environment Engineering.

Re: PPGCL's Compliance qua the CSR activities:-

7. Under the CSR activities of PPGCL, it has undertaken the following:-

CSR compliances by PPGCL
Re: Installation, Operationalisation and the monitoring of the 500 KLD RO Water Plant

A. Installation, Operationalisation and Maintenance of the RO Plant

It is submitted that as part of its CSR obligations, PPGCL has installed the RO Plant. As the said RO Plant was not functional due to the low voltage in the transformer, PPGCL took diligent steps towards the operationalisation of the said RO Plant by getting the transformer repaired with the assistance of concerned electrical department. For the ease of reference, the Photographs exhibiting the operationalisation of the RO plant has been marked and annexed as **ANNEXURE R4/27**.

Furthermore, PPGCL has engaged the services of M/s Divyansh RO Water Supplier ("**Independent Agency**"), which is providing its expert services for the operationalisation and maintenance of the RO Plant. It is further pertinent to note that PPGCL incurs approximately Rs. 4.08 lakh per annum on the smooth and effective operation and maintenance of the RO Plant.

PPGCL, in this regard, has also executed a Purchase Order with the Independent Agency dated 18.07.2023, for the purposes of operation and maintenance of the RO Plant. The copy of the said Purchase Order dated 18.07.2023 placed by the PPGCL upon the Independent Agency is marked hereto and annexed as **ANNEXURE R4/28**.

B. Benefits of the RO Plant

In this regard, it is submitted that RO Plant installed by PPGCL has a capacity of about 500 litres/hr. and is catering to the needs of nearly 700 people residing in the Berui village.

C. Quality standards of the water

PPGCL being a diligent and a committed entity has always worked for the betterment of the society and in light of the aforesaid objective, it got installed as well as fully operationalised the RO Plant in Berui village.

PPGCL, in order to demonstrate its *bona fide*, also got the water sample tested from the RO Plant, from an independent testing agency i.e. M/s Mitra S.K. Pvt. Ltd. ("**Testing Agency**"), which has also been accredited

by the National Accreditation Board for Testing and Calibration Laboratories ("NABTCL") with the certificate of accreditation, which was issued on 18.09.2021. Furthermore, the CPCB vide its letter dated 17.02.2022 had recognised the Testing Agency as the Environmental laboratory under the aegis of the Environment (Protection) Act, 1986. As per clause 2 of the letter dated 17.02.2022 issued by CPCB to the Testing Agency, the scope of the tests that the Agency can undertake has been broadly defined.

The copy of the certificate of accreditation issued by NABTCL in favour of the Testing Agency dated 18.09.2021 as well as the letter of recognition issued by CPCB to the Testing Agency dated 17.02.2022 are annexed hereto and marked as **ANNEXURE R4/29 (Colly.)**.

The testing agency in furtherance of the collection of the sample of water from the RO Plant submitted its report dated 06.07.2023 to PPGCL.

A perusal of the said report indicates that the parameters of the water being discharged from the RO Plant are within the desirable limit which is acceptable for drinking purposes as prescribed in the IS 10500:2012 which is a standard of drinking water parameters.

A copy of the Report dated 06.07.2023 is marked hereto and annexed as **ANNEXURE R4/30**.

Re: Skill building and livelihood

PPGCL has provided the following to the locals and residents of the nearby village:-

- (a) Training in solar panel installation, LED repairing and handset repairing through National Skill Development Corporation. After training a minimum of 70% trained youth will be placed through training partner.
- (b) Provided tailoring training to the women.

Photographs to this extent has been marked and annexed as **ANNEXURE R4/31**.

Re: Education sector

PPGCL has provided the following in terms of the education field:-

- (a) Providing support to the DAV Sardar Patel Public School by establishing a science lab separate for each branch i.e. physics, chemistry and biology.
- (b) Establishment of the computer lab with 20 computers.
- (c) Providing sports items/equipments and musical instruments.
- (d) Installed/Set-up 10 smart classes and green chalk board installed in each classroom.
- (e) Providing drinking water facility.
- (f) Fencing of open gallery of first and second floor of school building.
- (g) Installation of the solar panel of 204 kW at the school building.
- (h) Providing 50% / substantial amount of subsidy to the children of Project affected people.

Photographs to this extent has been marked and annexed as **ANNEXURE R4/32**.

Re: Health and sanitation services

PPGCL has provided the following services *qua* the health and medical services in the village area. It is noteworthy that most of the below mentioned services have been started and are being regularly provided post 2019 takeover:-

- (a) Development of a health centre, having various services like OPD, Pharmacy, Pathology, X-ray and ECG.
- (b) Development of COVID vaccination centres operating in Prayagraj, Bareilly, Shravasti and Gondal in association with the International Association for Human Value (“IAHV”). A total of 68,720 people have been vaccinated in the said centres.
- (c) Distributed ration to 1,252 families in COVID-19.
- (d) Distributed face masks and also conducted sanitisation work in surrounding villages, hospitals, police station and tehsil.
- (e) Conducted five day health awareness program for women and girls in surrounding villages and distributed sanitary kit.

(f) Health and sanitation awareness done in surrounding village school.

(g) Installation of solar panel of 61 kW at the hospital roof.

Photographs demonstrating the same has been marked and annexed as **ANNEXURE R4/33.**

Re: Entrepreneurship

PPGCL has further set up Fly Ash brick and block unit which is being operated through the NGO Gramin Vikas Samittee.

Re: Social & Financial Inclusion

PPGCL has contributed to a huge extent to the social wellbeing of the locals and the inhabitants of the village area by undertaking the following activities:

(a) Installed 50 Nos. of solar light in the surrounding community.

(b) Check dam constructed in Jorwat village.

(c) Installed 25 Nos. of handpumps.

(d) Installed treated drinking water system.

(e) Got 445 beneficiaries enrolled/ registered under the E-shram card scheme.

(f) Got 246 beneficiaries registered under labour card.

(g) Got 270 nos. of domicile, cast and income certificate made for the people of the local community from government offices.

(h) Repaired approximately 6km of road, which is connecting the school and the hospital.

(i) Provided nutritional supplements to 100 TB patients for six months in line with State Government of UP and Government of India guidelines for the TB patients.

Photographs to this extent has been marked and annexed as **ANNEXURE R4/34.**

8. A bare perusal of the aforesaid would categorically indicate that PPGCL has always duly complied with its EC/ CTO/ CTE obligations and also that it has

always shown its readiness to provide necessary help and assistance to the locals in and around the vicinity of the plant.

9. Therefore, in the light of the facts and circumstances stated above, it is most respectfully prayed that this Hon'ble Tribunal may be pleased to dispose the present OA *qua* PPGCL.

FILED BY



SKV LAW OFFICES

Advocates for Respondent No. 4/PPGCL
B-50, Defence Colony,
New Delhi-110024, Phone: 011-47099999
Email: lawyers@skvlawoffices.com

Date: 26.07.2023
Place: New Delhi

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNA
PRINCIPAL BENCH AT NEW DELHI
ORIGINAL APPLICATION NO. 617 OF 2022**



IN THE MATTER OF :-

Pushpender

... Applicant

Versus

State of U.P & Ors

... Respondents

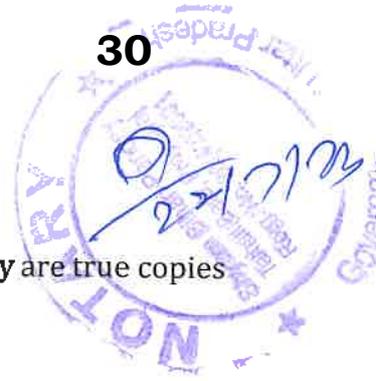
AFFIDAVIT

I, Ashok Kumar Panda, aged about 57 years, son of Nrushigha Chandra Panda, resident of C/21, Prayag Vihar, PPGCL, PO - Lohgara, Tehsil - Bara, Prayagraj, Pin - 212107, Authorised Representative of Respondent No. 4 i.e. M/s Prayagraj Power Generation Company Ltd (**Respondent No. 4/ PPGCL**, having its office at PO - Lohgara, Tehsil - Bara, Prayagraj, Pin - 212107, do hereby solemnly affirm, declare and state on oath as under:-

1. I am duly Authorised Representative of Respondent No. 4 Company in the instant Original Application and as such I am well conversant with the facts and circumstances of the present case, based on the information and knowledge as derived from the records maintained by the Respondent No. 4 in its ordinary course of business.
2. That I have read the accompanying Reply and I say that the same has been drafted under my instructions, and that the contents therein are true and correct to the best of my knowledge and belief.



Ashok



- 3. That the Annexures filed along with the accompanying Reply are true copies of their respective originals.
- 4. That the facts stated above in the above affidavit are true and correct to the best of my knowledge. No part of the same is false and nothing material has been concealed therefrom.



Ashok

DEPONENT

VERIFICATION

I, Ashok Kumar Panda, the deponent above named do hereby verify that the contents of this affidavit are true and correct to the best of my knowledge and belief, no part of it is false and nothing material has been concealed therefrom.

Verified at Prayagraj, on this 22nd day of July, 2023.

Ashok

DEPONENT



Ashok Kumar Panda

by the _____
 on date _____
 Compound _____
 P. Accept. and verified that the contents of this affidavit are true and correct.

22/7/23

22/7/23

Notary
 Prayagraj

प्रस्तावित तारपीय विद्युत गृह बारा, जनपद इलाहाबाद, प्रयागराज पावर जनरेशन कम्पनी लिमिटेड हेतु आर्धगृहीत भूमि (राजमार्ग एवं रेलवे लाइन से 500 मी० द्योम्कर) का विवरण :-

क्रम	ग्राम का नाम	बंजर/परती/ग्राम समाज (है० हे० में)	एड फसली (है० हे० में)	दो फसली (है० हे० में)	योग (है० हे० में)	विवरण
1-	कयारी	14-250	47-590	31-102	92-942	
2-	बेरुई	11-061	40-617	30-903	91-376	
3-	बेवरा	14-265	116-350	24-548	155-763	
4-	श्वान हेमरा	33-824	211-154	5-383	250-361	
5-	जोरवर	-	0-142	0-056	0-196	
	योग	74-200	423-848	91-990	590-038	

नोट - प्रस्तावित आर्धगृहीत भूमि उपरोक्त का क्षेत्रफल 12 वर्ष के हल्ले (1405 लक्ष 1416 वर्ग) के क्षेत्रफल के आधार पर किमा गणना है।

14/08/09
जनपद
बेवरा

14/08/09
मलचन्द्र गजलोक
बेवरा

10/08/09
210
10/08/09

अ.ग.स.स.स.
AEP
Daw (B)
18/08/09

अ.ग.स.स.स.
18/08/09

Land acquired for the proposed Thermal Power Station District Allahabad, Prayagraj Power Generation Company Limited (Leaving 500 Mtrs. from Highway and Railway Line)

S. No.	Name of Village	Barren/xxxx Village Society (Area in Hectare)	Mono crop (Area in Hectare)	Double crop (Area in hectare)	Total (Area in Hectare)	Detail
1	2	3	4	5	6	7
1)	Kawari	14.250	47.590	31.102	92.942	
2)	Berui	11.861	48.612	30.903	91.376	
3)	Bewra	14.265	116.350	24.548	155.163	
4)	Khan Samera	33.824	211.154	5.383	250.361	
5)	Jorwat	--	0.142	0.054	0.196	
	Total	74.200	423.848	91.990	590.038	

Note: The proposed acquired land has been classified on the basis of the average of 12 years of Khasra (1405 to 1416)

Sd/-
18/08/09

Sd/-
18/08/09

Sd/-
14/08/2009
Moolchand Gupta xxx
Area: Bewra


TRUE COPY

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate,
3, Pagladanga Road, Kolkata 700015
West Bengal
Tel. : +91 7044036120
Email: udayanlab@mitrask.com



TC-6950



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ULR: TC-695023000001058F

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

Prayagraj Power Generation Company Ltd.

Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj Uttar Pradesh India Pin 212107

Report No. :

MSKPL/ED/2022-23/N3745B

Date :

20/02/2023

Sample No. :

MSKNB/ED/2022-23/02/LG40AN

Date of receipt of sample:

11/02/2023

Date(s) of performance:

11/02/2023 - 20/02/2023

Location of performance of

Permanent Facility

Reference No. & Date :

9200000102, Date - 24/05/2021

Discipline:

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Pollution & Environment
2. Description of sample	Waste Water
3. Unique Identification of sample(if any)	STP OUTLET
4. Date of sampling	10/02/2023
5. Place of sampling	Prayagraj Power Generation Company Ltd. Vill.: Khan Semra, Tehsil : Bara, Dist.: Prayagraj Uttar Pradesh India Pin 212107
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7. Sampling Plan & Method used	APHA 23rd edition,2017
8. Identification of the personnel performing sampling by MSK	RAMESH KUMAR NISHAD
9. Field Equipments Used	N/A

Report No. : MSKPL/ED/2022-23/N3745B

Sample No. : MSKNB/ED/2022-23/02/LG40AN

RESULT

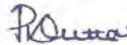
Sl No.	Parameter	UOM	Method	Result
1	Ammoniacal Nitrogen (as N)	mg/l	APHA (23rd Edition) 4500-NH3-F 2017	10
2	Biochemical Oxygen Demand (as BOD)	mg/l	APHA (23rd Edition) 5210B : 2017	4.4
3	Chemical Oxygen Demand (COD)	mg/l	APHA (23rd Edition) 5220B : 2017	16
4	Total Nitrogen	mg/l	APHA 23rd EDN 4500N C	14
5	Total Phosphorus as P	mg/l	APHA 23rd Edition, 4500P-B,D: 2017	2.9
6	Total Suspended Solid (as TSS)	mg/l	APHA (23rd Edition) 2540D : 2017	16
7	pH value	None	APHA (23rd Edition) 4500 -H-B : 2017	7.72 at 25 deg C

Opinion : NA

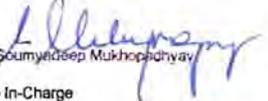
Statement of Conformity NA

— END —

Reviewed By:

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

Authorized Signatory:

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

*The results relate only to the item(s) tested

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

*The reserved part of sample(s) for chemical analysis (Non - perishable sample(s) Food, Water) shall be retained for 15 days from the date of issue of the Test Report. Perishable sample(s) shall be retained 2 days from the date of issue of the Test Report.

*The reserved part of sample(s) for chemical analysis (Soil, Solid & Liquid Waste) shall be retained for 15 days as per CPCB guideline & (Air) 1 month from the date of issue of the Test Report.

*The reserved part of sample(s) for Microbiological analysis (Non - perishable sample(s) Food, Sealed Water, Sealed food) shall be retained for 15 days from the date of issue of the Test Report

Head Office: Shrachi Centre (5th Floor), 74B, A.J.C. Bose Road, Kolkata - 700016, West Bengal, India
Tel. : 91 33 40143000 / 22650007 Fax : 91 33 22650008
Email : info@mitrask.com Website : www.mitrask.com

Page 1 of 1

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Address of Laboratory :

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 Tel. : +91 7044036120
 Email: udayanlab@mitrask.com



TC-6950



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ULR: TC-695023000001058F

TEST REPORT

Name & Address of Customer :

Prayagraj Power Generation Company Ltd.

Vill.: Khan Semra,
 Tehsil : Bara,
 Dist.: Prayagraj Uttar Pradesh India Pin 212107

Report No. :

MSKPL/ED/2022-23/N3745B

Date :

20/02/2023

Sample No. :

MSKNB/ED/2022-23/02/LG40AN

Date of receipt of sample:

11/02/2023

Date(s) of performance:

11/02/2023 - 16/02/2023

Location of performance of

Permanent Facility

Reference No. & Date :

9200000102, Date - 24/05/2021

Discipline:

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Pollution & Environment
2. Description of sample	Waste Water
3. Unique Identification of sample(if any)	STP OUTLET
4. Date of sampling	10/02/2023
5. Place of sampling	Prayagraj Power Generation Company Ltd. Vill.: Khan Semra, Tehsil : Bara, Dist.: Prayagraj Uttar Pradesh India Pin 212107
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7. Sampling Plan & Method used	APHA 23rd edition,2017
8. Identification of the personnel performing sampling by MSK	RAMESH KUMAR NISHAD
9. Field Equipments Used	N/A

Report No. : MSKPL/ED/2022-23/N3745B

Sample No. : MSKNB/ED/2022-23/02/LG40AN

RESULT

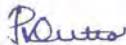
Micro Biology				
Sl No.	Parameter	UOM	Method	Result
1	Faecal coliform	MPN/100ml	Standard methods for the examination of water & waste water, 23rd edtn,2017 9221 E	79

Opinion : NA

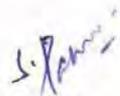
Statement of Conformity NA

----- END -----

Reviewed By:

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

Authorized Signatory:

Signature : 
 Name : Mr. Sukanta Palui
 Designation : Technical In charge

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

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Email: udayanlab@mitrask.com



TC-6950



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ULR: TC-695023000002205F

TEST REPORT

Name & Address of Customer :

Prayagraj Power Generation Company Ltd.

Vill.: Khan Semra,

Tehsil: Bara

Dist : Prayagraj Uttar Pradesh India Pin 212107

Report No. :

MSKPL/ED/2022-23/P058A9

Date :

29/03/2023

Sample No. :

MSKNB/ED/2022-23/03/H744EG

Date of receipt of sample:

21/03/2023

Date(s) of performance:

21/03/2023 - 29/03/2023

Location of performance of

Permanent Facility

Reference No. & Date :

9200000102, Date - 24/05/2021

Discipline:

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Pollution & Environment
2. Description of sample	Waste Water
3. Unique Identification of sample(if any)	ETP OUTLET
4. Date of sampling	20/03/2023
5. Place of sampling	Prayagraj Power Generation Company Ltd Vill : Khan Semra Tehsil : Bara Dist Prayagraj Uttar Pradesh India Pin 212107
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7. Sampling Plan & Method used	APHA 23rd edition 2017
8. Identification of the personnel performing sampling by MSK	RAMESH KUMAR NISHAD
9. Field Equipments Used	N/A

Report No. : MSKPL/ED/2022-23/P058A9

Sample No. : MSKNB/ED/2022-23/03/H744EG

RESULT

Sl No.	Parameter	UOM	Method	Result
1	Biochemical Oxygen Demand (as BOD)	mg/l	APHA (23rd Edition) 5210B : 2017	<2.0
2	Chemical Oxygen Demand (COD)	mg/l	APHA (23rd Edition) 5220B : 2017	<4.0
3	Dissolved Oxygen	mg/l	APHA (23rd Edition) 4500 -O-C/G : 2017	6.7
4	Oil and Grease	mg/l	APHA (23rd Edition) 5520B : 2017	<5.0
5	Total Dissolved Solids (as TDS)	mg/l	APHA (23rd Edition) 2540C : 2017	210
6	Total Suspended Solid (as TSS)	mg/l	APHA (23rd Edition) 2540D : 2017	<2.5
7	pH value	None	APHA (23rd Edition) 4500 -H-B : 2017	6.70 at 27 deg C

Opinion : NA

Statement of Conformity NA

----- END -----

Reviewed By:

Signature

Name: Sr Executive QA

Designation: Sr Executive QA

Authorized Signatory

Signature

Name: Dr. Shashi Subodh Maiti

Designation: Lab In Charge

The results relate only to the items tested.

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

The reserved part of sample(s) for chemical analysis (Nutrient, preservative, sample(s) Food, Water) shall be retained for 15 days from the date of issue of the Test Report. Perishable sample(s) shall be retained 7 days from the date of issue of the Test Report.

The reserved part of sample(s) for chemical analysis (Solid, Solid & Liquid Waste) shall be retained for 15 days as per CPCB guideline & (Air) 3 month from the date of issue of the Test Report.

The reserved part of sample(s) for Microbiological analysis (Nutrient, preservative, sample(s) Food, Sealed Water, Sealed food) shall be retained for 15 days from the date of issue of the Test Report.

Head Office: Shreeji Centre 15th Floor, 24B A.J.C. Bose Road, Kolkata - 700016, West Bengal, India.

Tel: 91 33 40143000 / 22615007 Fax: 91 33 22610009

Email: info@mitrask.com Website: www.mitrask.com

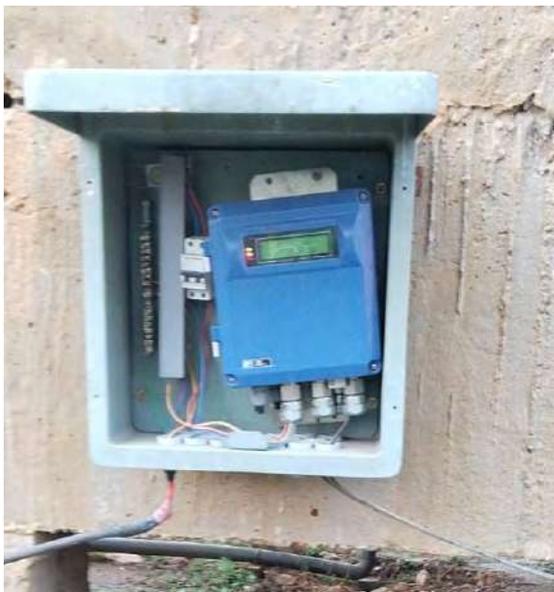
Page 1 of 1

TRUE COPY

Photographs of water meter –



Water meter at water withdrawal source



Meter in ETP



Meter in STP



Ref: PPGCL /ENV/FY23/ 329

Date: 07.02.2023

To,

The Member Secretary

U.P Pollution Control Board

Building No. TC-12 V,

Vibhuti Khand, Gomti Nagar

Lucknow – 226010

Subject: OCEMS calibration report in compliance to CTO condition granted on 29.12.2020

Dear Sir,

With reference to the above mentioned subject and condition of CTO. Please find enclosed OCEMS calibration report.

This is for your kind information and record please.

Sincerely,

For Prayagraj Power Generation Company Limited

S H Pandey

Chief O&M Services



Enclosures – OCEMS calibration report

Cc: Regional Office

U.P Pollution Control Board, Prayagraj

Prayagraj Power Generation Company Limited

Registered Office : Shatabdi Bhawan, B 12 & 13, Sector 4, Gautam Buddha 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

TRUE COPY

SITE CALIBRATION CERTIFICATE
CEMS ANALYSERS



SITE CALIBRATION CERTIFICATE

Calibration Cert No: FM2211PNE-00002
FM<2022><11><LKO>-<02>
Site Information:

Forbes Marshall
Krohne Marshall
Forbes Vyncke
Forbes Marshall Arca
Codel International
Forbes Solar
Forbes Marshall Steam Systems

Customer Name:	Prayagraj Power Generation Company Limited – Bara, Allahabad			
Customer PO No:	6000000769			
FM OA No:	552109944	OA Date:	29/01/2022	
Model No:	GAS ANALYSER < GCEM40XX >			
Serial No:	0764			
Date of test:	24/11/2022			
Validity (since Date of Test) :	3 Months			
Tag/ Location:	Stack Boiler 1			
Item	Serial no's	Value	Remarks (if any)	
Transceiver	GCEM40XX-0764	NA		
Display Unit (DDU)	GCEM40XX-0764	NA		
Probe Type	NA	NA		
EPROM Set	NA	NA		
Path Length	NA			
Accessories (Cylinder Details)				
Cylinder SN	Species	Concentration (ppm)	Cylinder Certificate SN	Validity End date
740859	SOx	470	740859	21.11.2023
740859	NOx	470	740859	21.11.2023
ALCAL-262991	CO2	11.05%	ALCAL-262991	21.11.2023
740859	CO	470	740859	21.11.2023

Operational Checks:

Item	Range (4 -20mA)	UOM	Average
O/P 1	0-25	%	30 sec
O/P 2	0-1000	mg/Nm3	30 sec
O/P 3	0-1000	mg/Nm3	30 sec
O/P 4	0-2000	mg/Nm3	30 sec
O/P 5	0-25	%	30 sec

Check	Value (✓)	Remark
Forbes Marshall Power Limited RS485 Modbus test	✓	

B-58, Sector E, Kapoorthala, Aliganj, Near Chandralok Hydrel Colony, Lucknow-226024
Uttar Pradesh, India. Tel : +91 522 4006410 Email: lucknow@forbesmarshall.com

Regd. Office: A-34/35, MIDC H Block, Pimpri, Pune 411 018. Tel: +91 20 27442020 / 39851199, Fax: +91 20 27442040

CIN No.: U28996PN1985PTC037906

Format Release Doc ID:1300/16GG

Rev:A

Issue:0

Date:25th Sep 2018

Ref: NA

Energy Conservation | Environment | Process Efficiency

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**SITE CALIBRATION CERTIFICATE
CEMS ANALYSERS**



Test data:

Fuel : Coal
Specify Fuel Mixture (If Applicable) :
Boiler / Process Capacity (TPH/ As applicable): 209.5 TPH (Stack 1)

Forbes Marshall
Krohne Marshall
Forbes Vyncke
Forbes Marshall Arca
Codel International
Forbes Solar
Forbes Marshall Steam Systems

SN	Species	Cylinder Concentration (ppm)	Analyser Reading (ppm)	Pressure (kpa)	Temperature (Deg C)	Remarks
1	SO2	470	472	105	30	
2	NO	470	470	105	30	
3	CO2	11.05%	11.05%	105	30	
4	CO	470	470	105	30	

Note:

1. The calibration results reported in this certificate are valid at this time and for stated conditions of measurement.
2. This report should not be reproduced except in full without our prior permission in writing.

Calibrated By:

Name:

Nayan Rana

Date

24/11/2022


Signed:
(For Forbes Marshall)

Forbes Marshall Private Limited

B- 58, Sector E, Kapoorthala, Allganj, Near Chandralok Hydrl Colony, Lucknow-226024
Uttar Pradesh, India. Tel : +91 522 4006410 Email: lucknow@forbesmarshall.com

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CIN No. - U28006PN1985PTC037006

Format Release Doc ID:1300/16GG

Rev:A

Issue:0

Date:25th Sep 2018

Ref: NA

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SITE CALIBRATION CERTIFICATE
CEMS ANALYSERS



SITE CALIBRATION CERTIFICATE

Calibration Cert No: FM2211PNE-00004

FM<2022><11><LKO>-<04>

Site Information:

Forbes Marshall
Krohne Marshall
Forbes Vyncke
Forbes Marshall Arca
Codel International
Forbes Solar
Forbes Marshall Steam Systems

Customer Name:	Prayagraj Power Generation Company Limited – Bara, Allahabad			
Customer PO No:	6000000769			
FM OA No:	552109944	OA Date:	29/01/2022	
Model No:	GAS ANALYSER <GCEM40XX >			
Serial No:	0762			
Date of test:	24/11/2022			
Validity (since Date of Test) :	3 Months			
Tag/ Location:	Stack Boiler 2			
Item	Serial no's	Value	Remarks (if any)	
Transceiver	GCEM40XX-0762	NA		
Display Unit (DDU)	GCEM40XX-0762	NA		
Probe Type	NA	NA		
EPROM Set	NA	NA		
Path Length	NA			
Accessories (Cylinder Details)				
Cylinder SN	Species	Concentration (ppm)	Cylinder Certificate SN	Validity End date
740859	SOx	470	740859	21.11.2023
740859	NOx	470	740859	21.11.2023
ALCAL-262991	CO2	11 %	ALCAL-262991	21.11.2023
740859	CO	470	740859	21.11.2023

Operational Checks:

Item	Range (4 -20mA)	UOM	Average
O/P 1	0-1000	mg/Nm3	30 sec
O/P 2	0-2000	mg/Nm3	30 sec
O/P 3	0-25	%	30 sec
O/P 4	0-2000	mg/Nm3	30 sec
O/P 5	0-1000	mg/Nm3	30 sec

Check	Value (✓)	Remark
Forbes Marshall Private Limited	✓	
RS485 Modbus Test	✓	

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Uttar Pradesh, India. Tel : +91 522 4006410 Email: lucknow@forbesmarshall.com

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CIN No.: U28996PN1985PTC037806

SITE CALIBRATION CERTIFICATE
CEMS ANALYSERS



Forbes Marshall
Krohne Marshall
Forbes Vyncke
Forbes Marshall Arca
Codel International
Forbes Solar
Forbes Marshall Steam Systems

Test data:

Fuel : Coal
Specify Fuel Mixture (If Applicable) :
Boiler / Process Capacity (TPH/ As applicable): 209.5 TPH (Stack 2)

SN	Species	Cylinder Concentration (ppm)	Analyser Reading (ppm)	Pressure (kpa)	Temperature (Deg C)	Remarks
1	SO ₂	470	470	101	120	
2	NO	470	470	101	120	
3	CO ₂	11 %	11 %	101	120	
4	CO	470	469	101	120	

Note:

1. The calibration results reported in this certificate are valid at this time and for stated conditions of measurement.
2. This report should not be reproduced except in full without our prior permission in writing.

Calibrated By:

Name:

Nayan Rana

Date:

24/11/2022



Signed:
(For Forbes Marshall)

Forbes Marshall Private Limited

B- 58, Sector E, Kapoorthala, Aliganj, Near Chandralok Hydrel Colony, Lucknow-226024
Uttar Pradesh, India. Tel : +91 522 4006410 Email: lucknow@forbesmarshall.com

Regd. Office: A-34/35, MIDC H Block, Pimpri, Pune 411 018. Tel: +91 20 27442020 / 39851199, Fax: +91 20 27442040
CIN No.: U28996PN1985PTC037806

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**SITE CALIBRATION CERTIFICATE
CEMS ANALYSERS**



SITE CALIBRATION CERTIFICATE

Calibration Cert No: FM2211PNE-00006

FM<2022><11><LKO>-<06>

Site Information:

Forbes Marshall
Krohne Marshall
Forbes Vyncke
Forbes Marshall Arca
Codel International
Forbes Solar
Forbes Marshall Steam Systems

Customer Name:	Prayagraj Power Generation Company Limited – Bara, Allahabad			
Customer PO No:	6000000769			
FM OA No:	552109944	OA Date:	29/01/2022	
Model No:	GAS ANALYSER < GCEM40XX >			
Serial No:	0763			
Date of test:	24/11/2022			
Validity (since Date of Test) :	3 Months			
Tag/ Location:	Stack Boiler 3			
Item	Serial no's	Value	Remarks (if any)	
Transceiver	GCEM40XX-0763	NA		
Display Unit (DDU)	GCEM40XX-0763	NA		
Probe Type	NA	NA		
EPROM Set	NA	NA		
Path Length	NA			
Accessories (Cylinder Details)				
Cylinder SN	Species	Concentration (ppm)	Cylinder Certificate SN	Validity End date
740885	SOx	470	740885	21.11.2023
740885	NOx	470	740885	21.11.2023
ALCAL-262997	CO2	11.12%	ALCAL-262997	21.11.2023
740885	CO	470	740885	21.11.2023

Operational Checks:

Item	Range (4 -20mA)	UOM	Average
O/P 1	0-1000	mg/Nm3	30 sec
O/P 2	0-2000	mg/Nm3	30 sec
O/P 3	0-25	%	30 sec
O/P 4	0-1000	mg/Nm3	30 sec
O/P 5	0-25	%	30 sec

Check	Value (✓)	Remark
Forbes Marshall Limited	✓	

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Uttar Pradesh, India. Tel : +91 522 4006410 Email: lucknow@forbesmarshall.com

Regd. Office: A-34/35, MIDC H Block, Pimpri, Pune 411 018. Tel: +91 20 27442020 / 39851199, Fax: +91 20 27442040

CIN No.: U28996PN1985PTC037806

Format Release Doc ID: I300/16GG	Rev:A	Issue:0	Date:25 th Sep 2018	Ref: NA
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**SITE CALIBRATION CERTIFICATE
CEMS ANALYSERS**



Forbes Marshall
Krohne Marshall
Forbes Vyncke
Forbes Marshall Arca
Codel International
Forbes Solar
Forbes Marshall Steam Systems

Test data:

Fuel : Coal
Specify Fuel Mixture (If Applicable) :
Boiler / Process Capacity (TPH/ As applicable): 209.5 TPH (Stack 3)

SN	Species	Cylinder Concentration (ppm)	Analyser Reading (ppm)	Pressure (kpa)	Temperature (Deg C)	Remarks
1	SO2	470	473	101	115	
2	NO	470	472	101	115	
3	CO2	11.12%	11.1%	101	115	
4	CO	470	473	101	115	

Note:

1. The calibration results reported in this certificate are valid at this time and for stated conditions of measurement.
2. This report should not be reproduced except in full without our prior permission in writing.

Calibrated By:

Name:

Nayan Rana

Date

24/11/2022

Signed:

(Forbes Marshall)



Forbes Marshall Private Limited

B- 58, Sector E, Kapoorthala, Aliganj, Near Chandralok Hydrel Colony, Lucknow-226024

Uttar Pradesh, India. Tel : +91 522 4006410 Email: lucknow@forbesmarshall.com

Regd. Office: A-34/35, MIDC H Block, Pimpri, Pune 411 018. Tel: +91 20 27442020 / 39851199, Fax: +91 20 27442040

CIN No - 028996271985610097806	Format Release Doc ID: 1300716GG	Rev:A	Issue:0	Date:25 th Sep 2018	Ref: NA
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SITE CALIBRATION CERTIFICATE
CEMS ANALYSERS



SITE CALIBRATION CERTIFICATE

Calibration Cert No: FM2211PNE-00001
FM<2022><11><LKO>-<01>

Forbes Marshall
Krohne Marshall
Forbes Vyncke
Forbes Marshall Arca
Codef International
Forbes Solar
Forbes Marshall Steam Systems

Site Information:

Customer Name:	Prayagraj Power Generation Company Limited - Bara		
Customer PO No:	6000000769		
FM OA No:	552109944	OA Date:	29/01/2022
Model No:	DUST MONITOR < DCEM2100 >		
Serial No:	DCEM2100-0161		
Date of test:	24/11/2022		
Validity : (Since Date of Test)	3 months		
Tag/ Location:	Stack 1		
Item	Serial no's	Value	Remarks (if any)
Transceiver 1	DCEM2100-0161-TRX1	NA	
Transceiver 2	DCEM2100-0161-TRX2	NA	
Signal Processor	DCEM2100-0161-SPU	NA	
Power Supply	PSU48	NA	
Display Unit (DDU)	DCEM2100-0162-RCU	NA	
Remote Unit (RCU)		NA	
ACU Unit	DCEM2100-ACU	NA	
EPROM Set	NA	NA	
Path Length	NA		
LED type (Green/ Red)	Red		
Purge Type (Inst Air/ Blower)	Instrument Air		
Accessories			
Blower			
Analogue I/P PCB	YES	30 Deg c	NA
RS232 PCB	NA		

Operational Checks:

Item	Range (4 -20mA)	UOM	Average
O/P 1	0 to 500	mg/Nm3	30 sec
O/P 2	0 to 500	Mg/Nm3	

Check	Value (✓)	Remark
RS485 Modbus Test	✓	
Swab and Lens cleaning	✓	



SITE CALIBRATION CERTIFICATE
CEMS ANALYSERS



Test data:

Fuel : Indian Coal
Specify Fuel Mixture (If Applicable) : NA
Boiler / Process Capacity (TPH/ As applicable) : 209.5 TPH

Forbes Marshall
Krohna Marshall
Forbes Vyncke
Forbes Marshall Area
Codel International
Forbes Solar
Forbes Marshall Steam Systems

SN	Start Time	Start Date	End Time	Isokinetic Reading (mg/Nm3)	Flue Pressure (kpa)	Flue Temperature (deg C)	Extinction reading from instrument for same period	Calculated Dust factor
1	10.28	21/11/2022	10.59	46	101	110	0.1	120
2								
3								

New Avg. Dust factor:

120

New Dust factor Entry Date:

24/11/2022

Current Analyser Reading (mg/Nm3)
with new dust factor

44 mg/Nm3

Note:

1. The calibration results reported in this certificate are valid at this time and for stated conditions of measurement.
2. This report should not be reproduced except in full without our prior permission in writing.

Calibrated By:

Name:

Nayan Rana

Date:

24/11/2022

Signed:

(For Forbes Marshall)

Forbes Marshall Private Limited

B- 58, Sector E, Kapoorthala, Aliganj, Near Chandralok Hydral Colony, Lucknow-226024
Uttar Pradesh, India. Tel : +91 522 4006410 Email: lucknow@forbesmarshall.com

Regd. Office: A-34/35 MIDC, H. Block, Pimpri, Pune 411 011 & Tel: +91 20 27442000 Fax: +91 20 27442040
Form No. D28996PN1985PTC037806

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SITE CALIBRATION CERTIFICATE
CEMS ANALYSERS



SITE CALIBRATION CERTIFICATE

Calibration Cert No: FM2211-PNE-00003

FM<2022><11><LKO>-<03>

Site Information:

Forbes Marshall
Krohne Marshall
Forbes Vyncke
Forbes Marshall Arca
Codel International
Forbes Solar
Forbes Marshall Steam Systems

Customer Name:	Prayagraj Power Generation Company Limited - Bara		
Customer PO No:	6000000769		
FM OA No:	552109944	OA Date:	29/01/2022
Model No:	DUST MONITOR < DCEM2100 >		
Serial No:	DCEM2100-0162		
Date of test:	24/11/2022		
Validity: (Since Date of Test)	3 months		
Tag/ Location:	Stack 2		
Item	Serial no's	Value	Remarks (if any)
Transceiver 1	DCEM2100-0162-TRX1	NA	
Transceiver 2	DCEM2100-0162-TRX2	NA	
Signal Processor	DCEM2100-0162-SPU	NA	
Power Supply	PSU48	NA	
Display Unit (DDU)	DCEM2100-0161-RCU	NA	
Remote Unit (RCU)		NA	
ACU Unit	DCEM2100-ACU	NA	
EPROM Set	NA	NA	
Path Length	NA		
LED type (Green/ Red)	Red		
Purge Type (Inst Air/ Blower)	Instrument Air		
Accessories			
Blower			
Analogue I/P PCB	YES	30 Deg C	NA
RS232 PCB	NA		

Operational Checks:

Item	Range (4 -20mA)	UOM	Average
O/P 1	0 to 500	mg/Nm3	30 sec
O/P 2	0 to 500	Mg/Nm3	

Check	Value (✓)	Remark
RS485 Modbus Test	✓	
Stub and Lens cleaning	✓	
Alignment	✓	

Forbes Marshall Private Limited
E-35, Sector E, Kapoorhala, Aliganj, Near Chandralok Hydrel Colony, Lucknow-226024

Uttar Pradesh, India. Tel : +91 522 4006410 Email: lucknow@forbesmarshall.com

Regd. Office: A-34/35, MIDC H Block, Pimpri, Pune 411 018. Tel: +91 20 27442020 / 39851199, Fax: +91 20 27442040

CIN No: U28996PN1985PTC037806

SITE CALIBRATION CERTIFICATE
CEMS ANALYSERS



Test data:

Fuel : Indian Coal
Specify Fuel Mixture (If Applicable) : NA
Boiler / Process Capacity (TPH/ As applicable) : 209.5 TPH

Forbes Marshall
Krohne Marshall
Forbes Vyncke
Forbes Marshall Arca
Codel International

SN	Start Time	Start Date	End Time	Isokinetic Reading (mg/Nm3)	Flue Pressure (kpa)	Flue Temperature (deg C)	Extraction reading from instrument for same period	Calculated Dust factor
1	16:14	24/11/2022	16:44	22.6	101	112	0.209	200
2								
3								

New Avg. Dust factor:

200

New Dust factor Entry Date:

24/11/2022

Current Analyzer Reading (mg/Nm3)
with new dust factor

30 mg/Nm3

Note:

1. The calibration results reported in this certificate are valid at this time and for stated conditions of measurement.
2. This report should not be reproduced except in full without our prior permission in writing.

Calibrated By:

Name:

Nayan Rana

Date:

24/11/2022

Signed:
(For Forbes Marshall)



Forbes Marshall Private Limited

B- 58, Sector E, Kapoorthala, Aliganj, Near Chandralok Hydrel Colony, Lucknow-226024
Uttar Pradesh, India. Tel : +91 522 4006410 Email: lucknow@forbesmarshall.com

Regd. Office: A-34/35, MIDC H Block, Pimpri, Pune 411 018. Tel: +91 20 27442020 / 39851199, Fax: +91 20 27442040

CIN No: U28996PN1985PTC037806

Energy Conservation | Environment | Process Efficiency

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SITE CALIBRATION CERTIFICATE
CEMS ANALYSERS



SITE CALIBRATION CERTIFICATE

Calibration Cert No: FM2211PNE-00005

FM<2022><11><LKO>-<05>

Site Information:

Forbes Marshall
Krohne Marshall
Forbes Vyncke
Forbes Marshall Arca
Codel International
Forbes Solar
Forbes Marshall Steam Systems

Customer Name:	Prayagraj Power Generation Company Limited - Bara		
Customer PO No:	6000000769		
FM OA No:	552109944	OA Date:	29/01/2022
Model No:	DUST MONITOR < FMDCEM21XX >		
Serial No:	DCEM21XX- 21114		
Date of test:	24/11/2022		
Validity : (Since Date of Test)	3 months		
Tag/ Location:	Stack 3		
Item	Serial no's	Value	Remarks (if any)
Transceiver 1	DCEM21XX-21114-TRX1	NA	
Transceiver 2	DCEM21XX-21114-TRX2	NA	
Signal Processor	DCEM21XX-21114-SPU	NA	
Power Supply	PSU48	NA	
Display Unit (DDU)	DCEM21XX-21114-RCU	NA	
Remote Unit (RCU)		NA	
ACU Unit	NA	NA	
EPROM Set	NA	NA	
Path Length	NA		
LED type (Green/ Red)	Red		
Purge Type (Inst Air/ Blower)	Instrument Air		
Accessories			
Blower			
Analogue I/P PCB	NA		
RS232 PCB	NA		

Operational Checks:

Item	Range (4 -20mA)	UOM	Average
O/P 1	0 to 500	mg/Nm3	30 sec
O/P 2	0 to 500	Mg/Nm3	

Check	Value (✓)	Remark
RS485 Modbus Test	✓	
Stub and Lens cleaning	✓	
Alignment	✓	

Forbes Marshall Private Limited
B-55, Sector E, Kapoorthala, Aliganj, Near Chandralok Hydrl Colony, Lucknow-226024

Uttar Pradesh, India. Tel : +91 522 4006410 Email: lucknow@forbesmarshall.com

Regd. Office: A-34/35, MIDC H Block, Pimpri, Pune 411 018. Tel: +91 20 27442020 / 39851199, Fax: +91 20 27442040

CIN No: U28996PN1985PTC037806

SITE CALIBRATION CERTIFICATE
CEMS ANALYSERS



Test data:

Fuel : Indian Coal
Specify Fuel Mixture (If Applicable) : NA
Boiler / Process Capacity (TPH/ As applicable) : 209.5 TPH

Forbes Marshall
Krohne Marshall
Forbes Vynckx
Forbes Marshall Area
Codel International
Forbes Solar
Forbes Marshall Steam Systems

SN	Start Time	Start Date	End Time	Isokinetic Reading (mg/Nm3)	Flue Pressure (kpa)	Flue Temperature (deg C)	Extinction reading from instrument for same period	Calculated Dust factor
1	15:58	24/11/2022	15:26	33.5	101	130	0.140	250

New Avg. Dust factor:

250

New Dust factor Entry Date:

24/11/2022

Current Analyser Reading (mg/Nm3)
with new dust factor

40 mg/Nm3

Note:

1. The calibration results reported in this certificate are valid at this time and for stated conditions of measurement.
2. This report should not be reproduced except in full without our prior permission in writing.

Calibrated By:

Name:

Nayan Rana

Date:

24/11/2022

Signed: 
(For Forbes Marshall)

Forbes Marshall Private Limited

B- 58, Sector E, Kapoorthala, Aliganj, Near Chandralok Hydel Colony, Lucknow-226024
Uttar Pradesh, India. Tel : +91 522 4006410 Email: lucknow@forbesmarshall.com

Regd. Office: A-34/35, MIDC H Block, Pimpri, Pune 411 018. Tel: +91 20 27442020 / 39851199, Fax: +91 20 27442040

CIN No: U28996PN1985PTC037806

Energy Conservation | Environment | Process Efficiency

www.forbesmarshall.com



Forbes Marshall
 Forbes Marshall
 Forbes Vyncke
 Forbes Marshall Area
 Castel International
 Forbes Solar
 Forbes Marshall Water Systems

Calibration Certificate for Multi Parameter Analyzer

Customer : **M/s PRAYAGRAJ POWER GENERATION COMPANY LTD.**

MULTIPARAMETER ANALYZER	
Make	AWA
Serial Number	203347
Calibration On	24/11/2022
Calibration Due Date	23/02/2022
Validity	3 Months

This is to certify that Instrument has been calibrated at site by the undersigned with the reference to standard solution of COD, TSS and pH.
 The Reading are as under:-

Parameter	Standard Solution	Analyzer Reading
COD(PPM)	100	106.5
TSS(PPM)	100	115.1
pH(PH)	7.00	7.00

- BOD is the calculated value with respect to COD.
- Multipara meter Analyzer Calibrated and all the reading were found ok with respect to standard solution.

Nayan Rana
 TESTED BY



SIGNATURE

24/11/2022
 DATE

Forbes Marshall Private Limited

B- 58, Sector E, Kapoorthala, Aliganj, Near Chandralok Hydral Colony, Lucknow-226024

Uttar Pradesh, India. Tel : +91 522 4006410 Email: lucknow@forbesmarshall.com

Regd. Office: A-34/35, MIDC H Block, Pimpri, Pune 411 018. Tel: +91 20 27442020 / 39851199, Fax: +91 20 27442040

CIN No.: U28996PN1985PTC037806

Energy Conservation | Environment | Process Efficiency

www.forbesmarshall.com

TRUE COPY

Ref: PPGCL/ENV/FY/23/248

Date: 28.11.2022

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

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

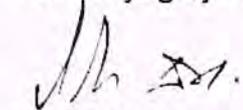
Dear Sir,

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

This is for your kind information and record please .

Sincerely

For Prayagraj Power Generation Company Limited



Abhijit Ain Das
Chief - O&M

Enclosure: Environment Clearance compliance with

Cc: i) Incharge,

CPCB, Zonal Office (North), Lucknow

ii) Member Secretary

UPPCB, Lucknow

iii) Regional Officer

UPPCB, Prayagraj



Prayagraj Power Generation Company Limited

Registered Office : Shatabdi Bhawan, B 12 & 13, Sector 4, Gautam Budh Nagar, Noida, Uttar Pradesh - 201301
Phone: + 91-120-6102000/6102208 CIN: U40101UP2007SGC032835Plant Address : P.O. - Lohgara, Tehsil - Bara, Prayagraj (Allahabad), Uttar Pradesh - 212107
Phone: + 91-7525006400/ 8528846666, Web: ppgcl.co.in, Email: ppgcl@ppgcl.co.in**TRUE COPY**

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

OF

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

FOR THE PERIOD April 22 to Sept- 2022

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

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

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

Period of Compliance Report: 1st April 2022 to 30th Sept 2022

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 April 22 to Sept 22 is 34.58% and Sulphur content is within 0.36%.
(iv)	Two stacks (one bi-flue and one single flue) of 275 m height each shall be provided with continuous online monitoring equipments for SOx and NOx particulate matter. Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack may also be monitored on periodic basis.	Stack of 275 m height is provided with online continuous monitoring equipment in all three units for SOx, NOx, and particulate matter. Average exit velocity of flue gas from Unit I, II and III stack for the period from April 22 to Sept 22 is 22.8 m/s, 23.0 m/s and 23.4 m/s respectively. Mercury monitoring is also being carried out through third party. Stack monitoring report is attached as Annexure-I .
(v)	High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	Complied. High efficiency ESP has been installed and in continuous operation. Stack monitoring report is attached as Annexure-I.
(vi)	Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Complied. Dust extraction and dust suppression system has been installed. Fogging system has been installed in wagon tippler. Also, the roads have been made pucca. Photographs are attached as Annexure-VII
(vii)	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. 100% fly ash utilization shall be ensured from 4 th year onwards. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. Mercury and other heavy metals (As, Hg, Cr, Pb,	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

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

(xiv)	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yards, especially during summer season. Copy of these measures with full details along with location plant lay out shall be submitted to the Ministry as well as to the Regional Office of the Ministry at Lucknow.	Complied. Fire protection system for plant inter-alia includes measure to check / minimize spontaneous fires in coal yard. We have already submitted the details of fire protection system to check / minimize spontaneous fires in coal yard with plant lay out vide our letter no PPGCL/BARA/MOEF/14/05 Date 09.05.2014
(xv)	Storage facilities for auxiliary liquid fuel such as LDO and/HFO/LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur contents in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	Complied.
(xvi)	Regular monitoring of ground water in and around ash pond area including heavy metals (Hg, Cr, As, Pb) shall be carried out, records maintained, and six monthly reports shall be furnished to the Regional Office of this Ministry. The data so obtained should be compared with the base line data so as to ensure that the ground water quality is not adversely affected due to project.	Being complied with. The ground water monitoring report is attached as Annexure III . The parameters are within standards.
(xvii)	A green belt of adequate width and density shall be developed around the plant periphery covering 1/3 of total area preferably with local species.	We have planted approx. 3,34060 nos. of sapling till Sept 2022. Approx. 20520 Saplings were planted during monsoon.
(xviii)	First-Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Complied.
(xix)	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited of 75 dB (A). For people working in the high noise area, requisite personal protective equipments like ear-plugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine areas, air compressors etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy/less noisy areas.	Being complied with. Personal protective equipment like earplugs/ ear muffs etc. have been provided. Noise monitoring report is attached as Annexure -IV .
(xx)	Regular monitoring of ground level concentration of SO ₂ , NO _x , RSPM and Hg shall be carried out in the impact zone and records maintained. If at any stage, these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in	Complied. The locations of the monitoring stations have been approved by U. P. Pollution Control Board (UPPCB) vide our letter no PPGCL / BARA / MOEF / 14 / 05 Dated 09.05.2014. Ambient air quality monitoring report is attached as Annexure- V .

	consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the web site of the company.	
(xxi)	A good action plan for R&R with package for the project affected persons be provided as per prevalent R&R policy within three months from the date of issue of this letter.	Complied.
(xxii)	An amount of Rs. 32 crores as capital and Rs. 6 crores/annum as recurring should be earmarked for activities to be taken up under CSR by the above proponent. Details of the activities to be undertaken in this regard should be submitted within one month from the date of issue of this letter.	During April 22 to Sept 22 an amount of Rs. 297 Lakh (approx.) has been incurred in different programs under thrust area – Education, Health & Sanitation, Entrepreneurship, Skill building & livelihood, Social and financial inclusion.
(xxiii)	Provision shall be made for the housing of the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health structures to be removed after the completion of the project.	Complied.
(xxiv)	The project proponent shall be advertised in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at the web site of the Ministry of Environment and Forests at http://envfor.nic.in	Complied. Advertisement was published in the Hindustan Times, The Times of India (English) Daily and Dainik Jagran and Amar Ujala (Hindi Daily) on 7 th Oct. 2009 immediately after receipt of EC.
(xxv)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad, Municipal Corporation, Urban Local Body and the Local NGO is any, from whom suggestions/representations, if any received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied Copy of the clearance letter has already been sent to the concerned departments as prescribed.
(xxvi)	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Complied. Separate Environment department is functioning.
(xxvii)	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely SPM, RSPM SO ₂ , NO _x (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	Compliance of EC condition is being submitted on time. Last report was submitted on 30.05.2022. Data of stack and ambient air is displayed at main gate of the company.
(xxviii)	The project proponent shall also submit six monthly reports on the status of compliance of	Being complied. Last report was submitted on 30.05.2022.

	the stipulated EC conditions including results of monitored data (both in hard copies as well by e-mail) to the respective regional office of MOEF, the respective Zonal Office of CPCB and the SPCB.	
(xxix)	The environment statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MOEF by e-mail.	Being complied. Environment statement for FY 2021-2022 was submitted on 16.09.2022
(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.
(xxxii)	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.
(xxxiii)	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and dates of start of land development work and commissioning of plant.	Financial closure was obtained on 6.7.2010 and the construction activity for the project was started in Aug. 2010. All the three units are commissioned and in operation.
(xxxiv)	Full cooperation shall be extended to the Scientists/Officers from the Ministry/Regional Office of the Ministry at Bangalore/the CPCB/the SPCB who would be monitoring the compliance of environmental status.	Agreed.

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

S.No.	<u>Stipulated Conditions</u>	<u>Compliance Status</u>
xxxiv	Harnessing solar power within the premises of the plant particularly at available rooftops shall be carried out and status of implementation including actual generation of solar power shall be submitted along with half –yearly monitoring report.	PPGCL has installed 204 kW roof top solar power at school and roof top solar heater at guest houses. Solar based street and garden lights have also been installed. We are also in the process of installing another approx 60 kW roof top solar. Photographs are attached as Annexure-VIII
xxxv	A long term study of radio activity and heavy metals contents on coal to be used for the power plant shall be carried through a reputed institute and results thereof analyzed every two years and reported along with monitoring reports. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	Radioactivity test report carried out by BRIT-BARC, Mumbai is attached as annexure -VI . Analysis report of heavy metals in fly ash and ash is enclosed as Annexure-II
xxxvi	Space for FGD shall be provided for future installation as may be required.	Space for FGD has already been provided for future installation.
xxxvii	Fugitive emissions shall be controlled to prevent impact on agricultural or non-agricultural land in the vicinity, if any.	Complied. Dust extraction and dust suppression system has been installed to control fugitive emission.
xxxviii	Fly ash shall not be used for agricultural purpose. No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media so that no leachate shall take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from a reputed institute and accordingly clay lining of adequate thickness shall be provided. This shall be carried out in close co-ordination with State Pollution Control Board who shall ensure that clay lining of appropriate thickness is provided.	MoEF&CC vide OM dated 28 th August 2019 has permitted use of fly ash in abandoned mines / low lying areas / soil conditioner in agriculture.
xxxix	No water bodies including natural drainage system in the area shall be disturbed due to activities associated with setting up / operation of the power plant.	Noted.
xxxx	Green belt shall also be developed around the Ash Pond over and above the Green Belt around the plant boundary.	We have planted approx. 3,34,060 nos. of sapling till Sept 2022. Approx. 20520 Saplings were planted during monsoon.

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

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

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



TESTING • INSPECTION

Mitra S. K. Private Limited

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

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

TEST REPORT

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

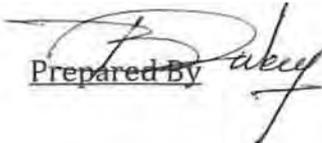
Report No. : C/2022/3207
Date : 12.04.2022
Sample No. : MSK/KOL/2022/3284
Sample Description : Stack Monitoring
Date of Receipt of Sample: 04/04/2022
Sample Mark : Thimble No.- 44 / Unit - III

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

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit - III	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	DG Capacity	:	Load-521.43MW, Coal Flow-317.01 TPH.	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	42.98 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption :	
D. Results of Sampling & Analysis of Gaseous Emission :				
SL No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	CO	<0.2	ppm	IS:13270 :1992 Reaff,2014
2.	CO ₂	9.2	% v/v	IS:13270 :1992 Reaff,2014
3.	NO ₂	378.7	mg/Nm ³	IS 11255 (Part 7) :2005 RA2017
4.	O ₂	10.7	% v/v	IS:13270 :1992 Reaff,2014
5.	PM	29.8	mg/Nm ³	IS 11255 (Part I):1985,RA 2014
6.	SO ₂	569	mg/Nm ³	IS 11255 (Part II)-1985, RA:2014
7.	Temperature	124	Deg C	IS 11255 (Part III),2008RA 2018
8.	Barometric pressure	758	mm of Hg	IS 11255 (Part III),2008RA 2018
9.	Concentration of Mercury	<0.002	micro gm/m ³	USEPA-29 - 25/06/1996
10.	Moisture content	<2.0	%	IS 11255 (Part III),2008RA 2018
11.	Quantity of gas flow	2393241	Nm ³ /hr	IS 11255 (Part III),2008RA 2018
12.	Velocity of gas	22.4	m/s	IS 11255 (Part III),2008RA 2018

For Mitra S. K. Private Limited

Prepared By 


Authorised Signatory

Mitra S. K. Private Limited



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

TEST REPORT

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

Report No. : C/2022/5309
 Date : 17.06.2022
 Sample No. : MSKNB/ED/2022-23/06/T836C
 Sample Description : Stack Monitoring
 Date of Receipt of Sample: 11/06/2022
 Sample Mark : Thimble No.- B14148 / Unit - III

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

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit - III	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	DG Capacity	:	660 MW	
7.	Load	:	648.2 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	42.98 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 375.8 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
Sl. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	CO	<0.2	ppm	IS:13270 :1992 Reaff,2014
2.	CO2	10.2	% v/v	IS:13270 :1992 Reaff,2014
3.	NO2	361.5	mg/Nm3	IS 11255 (Part 7) :2005 RA2017
4.	O2	8.4	% v/v	IS:13270 :1992 Reaff,2014
5.	PM	35	mg/Nm3	IS 11255 (Part I):1985,RA 2014
6.	SO2	496.5	mg/Nm3	IS 11255 (Part II)-1985, RA:2014
7.	Temperature	134	Deg C	IS 11255 (Part III),2008RA 2018
8.	Barometric pressure	760	mm of Hg	IS 11255 (Part III),2008RA 2018
9.	Concentration of Mercury	<0.003	micro gm/m3	USEPA-29 - 25/06/1996
10.	Molsture content	<2.0	%	IS 11255 (Part III),2008RA 2018
11.	Quantity of gas flow	2608653	Nm3/hr	IS 11255 (Part III),2008RA 2018
12.	Velocity of gas	23.64	m/s	IS 11255 (Part III),2008RA 2018

For Mitra S. K. Private Limited

Prepared By

Authorised Signatory

H.O. - Sirachi Centre (5th Floor), 74B, Acharya Jagadish Chandra Bose Road, Kolkata – 700016, West Bengal, India
 T : 91 33 22172249 / 40143000 / 22850006 / 22850007, F : 91 33 22850008 E : info@mitrask.com, W : www.mitrask.com

Mitra S. K. Private Limited



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

TEST REPORT

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

Report No. : C/2022/5944
 Date : 01.08.2022
 Sample No. : MSKNB/ED/2022-23/07/JN64C6
 Sample Description : Stack Monitoring
 Date of Receipt of Sample: 19/07/2022
 Sample Mark : Thimble No.- 610 / Unit - III

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

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit – III	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	DG Capacity	:	631.19 MW	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	42.98 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 379.40 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
Sl. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	CO	<0.2	ppm	IS:13270 :1992 Reaff,2014
2.	CO2	10.2	% v/v	IS:13270 :1992 Reaff,2014
3.	NO2	397.5	mg/Nm3	IS 11255 (Part 7) :2005 RA2017
4.	O2	8.4	% v/v	IS:13270 :1992 Reaff,2014
5.	PM	39.8	mg/Nm3	IS 11255 (Part I):1985,RA 2014
6.	SO2	584.8	mg/Nm3	IS 11255 (Part II)-1985, RA:2014
7.	Temperature	129	Deg C	IS 11255 (Part III),2008RA 2018
8.	Barometric pressure	760	mm of Hg	IS 11255 (Part III),2008RA 2018
9.	Concentration of Mercury	<0.003	micro gm/m3	USEPA-29 - 25/06/1996
10.	Moisture content	<2.0	%	IS 11255 (Part III),2008RA 2018
11.	Quantity of gas flow	2591030	Nm3/hr	IS 11255 (Part III),2008RA 2018
12.	Velocity of gas	23.53	m/s	IS 11255 (Part III),2008RA 2018

For Mitra S. K. Private Limited

Prepared By

Authorised Signatory

Mitra S. K. Private Limited



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TEST REPORT

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

Report No. : C/2022/5943
Date : 01.08.2022
Sample No. : MSKNB/ED/2022-23/07/FX64EL
Sample Description : Stack Monitoring
Date of Receipt of Sample: 19/07/2022
Sample Mark : Thimble No.- 146 / Unit - II

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

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit – II	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	DG Capacity	:	627.2 MW	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	42.98 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 366.89 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
SL. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	CO	<0.2	ppm	IS:13270 :1992 Reaff,2014
2.	CO2	10.2	% v/v	IS:13270 :1992 Reaff,2014
3.	NO2	329.6	mg/Nm3	IS 11255 (Part 7) :2005 RA2017
4.	O2	8.6	% v/v	IS:13270 :1992 Reaff,2014
5.	PM	36.7	mg/Nm3	IS 11255 (Part I):1985,RA 2014
6.	SO2	525	mg/Nm3	IS 11255 (Part II)-1985, RA:2014
7.	Temperature	112	Deg C	IS 11255 (Part III),2008RA 2018
8.	Barometric pressure	760	mm of Hg	IS 11255 (Part III),2008RA 2018
9.	Concentration of Mercury	<0.003	micro gm/m3	USEPA-29 - 25/06/1996
10.	Moisture content	<2.0	%	IS 11255 (Part III),2008RA 2018
11.	Quantity of gas flow	2616229	Nm3/hr	IS 11255 (Part III),2008RA 2018
12.	Velocity of gas	22.51	m/s	IS 11255 (Part III),2008RA 2018

For Mitra S. K. Private Limited

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TEST REPORT

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

Report No. : C/2022/6647
Date : 29.08.2022
Sample No. : MSKNB/ED/2022-23/08/YZ583V
Sample Description : Stack Monitoring
Date of Receipt of Sample: 20/08/2022
Sample Mark : Thimble No.- 741 / Unit - III

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

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit - III	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	DG Capacity	:	660 MW	
7.	Load	:	472.7 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 293 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
Sl. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	CO	<0.2	ppm	IS:13270 :1992 Reaff,2014
2.	CO2	8.2	% v/v	IS:13270 :1992 Reaff,2014
3.	NO2	281.1	mg/Nm3	IS 11255 (Part 7) :2005 RA2017
4.	O2	10.8	% v/v	IS:13270 :1992 Reaff,2014
5.	PM	38.4	mg/Nm3	IS 11255 (Part I):1985,RA 2014
6.	SO2	518.9	mg/Nm3	IS 11255 (Part II)-1985, RA:2014
7.	Temperature	108	Deg C	IS 11255 (Part III),2008RA 2018
8.	Barometric pressure	742	mm of Hg	IS 11255 (Part III),2008RA 2018
9.	Concentration of Mercury	<0.003	micro gm/m3	USEPA-29 - 25/06/1996
10.	Moisture content	3.5	%	IS 11255 (Part III),2008RA 2018
11.	Quantity of gas flow	2658361	Nm3/hr	IS 11255 (Part III),2008RA 2018
12.	Velocity of gas	23.42	m/s	IS 11255 (Part III),2008RA 2018

For Mitra S. K. Private Limited

Prepared By

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TEST REPORT

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

Report No. : C/2022/6646
Date : 29.08.2022
Sample No. : MSKNB/ED/2022-23/08/C0584J
Sample Description : Stack Monitoring
Date of Receipt of Sample: 20/08/2022
Sample Mark : Thimble No.- 742 / Unit - II

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

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit - II	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	DG Capacity	:	660 MW	
7.	Load	:	384 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 251 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
SL. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	CO	<0.2	ppm	IS:13270 :1992 Reaff,2014
2.	CO2	8.2	% v/v	IS:13270 :1992 Reaff,2014
3.	NO2	276.5	mg/Nm3	IS 11255 (Part 7) :2005 RA2017
4.	O2	10.8	% v/v	IS:13270 :1992 Reaff,2014
5.	PM	37.7	mg/Nm3	IS 11255 (Part I):1985,RA 2014
6.	SO2	420.2	mg/Nm3	IS 11255 (Part II)-1985, RA:2014
7.	Temperature	112	Deg C	IS 11255 (Part III),2008RA 2018
8.	Barometric pressure	742	mm of Hg	IS 11255 (Part III),2008RA 2018
9.	Concentration of Mercury	<0.003	micro gm/m3	USEPA-29 - 25/06/1996
10.	Moisture content	<2.0	%	IS 11255 (Part III),2008RA 2018
11.	Quantity of gas flow	2771537.6	Nm3/hr	IS 11255 (Part III),2008RA 2018
12.	Velocity of gas	23.9	m/s	IS 11255 (Part III),2008RA 2018

For Mitra S.K. Private Limited

Prepared By

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TEST REPORT

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

Report No. : C/2022/6645
Date : 29.08.2022
Sample No. : MSKNB/ED/2022-23/08/4C5822
Sample Description : Stack Monitoring
Date of Receipt of Sample: 20/08/2022
Sample Mark : Thimble No.- 740 / Unit - I

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

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit - I	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	DG Capacity	:	660 MW	
7.	Load	:	370 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 218 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
SL No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	CO	<0.2	ppm	IS:13270 :1992 Reaff,2014
2.	CO2	8.8	% v/v	IS:13270 :1992 Reaff,2014
3.	NO2	291.6	mg/Nm3	IS 11255 (Part 7) :2005 RA2017
4.	O2	10.8	% v/v	IS:13270 :1992 Reaff,2014
5.	PM	41.2	mg/Nm3	IS 11255 (Part I):1985,RA 2014
6.	SO2	559.4	mg/Nm3	IS 11255 (Part II)-1985, RA:2014
7.	Temperature	108	Deg C	IS 11255 (Part III),2008RA 2018
8.	Barometric pressure	742	mm of Hg	IS 11255 (Part III),2008RA 2018
9.	Concentration of Mercury	<0.003	micro gm/m3	USEPA-29 - 25/06/1996
10.	Moisture content	3	%	IS 11255 (Part III),2008RA 2018
11.	Quantity of gas flow	2331287.39	Nm3/hr	IS 11255 (Part III),2008RA 2018
12.	Velocity of gas	24.07	m/s	IS 11255 (Part III),2008RA 2018

For Mitra S. K. Private Limited

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TEST REPORT

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

Report No. : MSK/KTN/2022-23/APW/077
Date : 26/09/2022
Sample No. : MSKGL/ED/2022-23/09/01130
Date Of Sample : 16/09/2022
Sample Description : Ash Pond Water
Sample Mark : Ash Dyke

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

SL. No.	Parameter	UOM	Result	Method
1.	Copper (as Cu)	mg/l	<0.02	APHA (23rd Edition)3120B 2017 (ICP OES)
2.	Lead (as Pb)	mg/l	<0.005	APHA (23rd Edition)3120B 2017
3.	Mercury (as Hg)	mg/l	<0.001	IS 3025(Part 48)-1994; Rffm:2014
4.	Nickel (as Ni)	mg/l	<0.02	APHA (23rd Edition)3120B 2017
5.	Arsenic (as As)	mg/l	<0.005	APHA (23rd Edition)3120B 2017 (ICP OES)

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TEST REPORT

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

Report No. : MSK/KTN/2022-23/GDW/015
Date : 30/04/2022
Sample No. : MSKGL/ED/2022-23/04/02514
Date Of Sample : 02/04/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-3, Jorvat Village

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	247	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C, 2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	71	75	200	mg/l	APHA (23rd Edition) 3500 Ca B, 2017
09.	Chloride (as Cl)	147	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
12.	Fluoride (as F)	1.2	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
15.	Iron (as Fe)	<0.05	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
17.	Magnesium (as Mg)	17	30	100	mg/l	APHA (23rd Edition) 3500 Mg B, 2017
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nitrate (as NO ₃)	21	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
23.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Sulphate (as SO ₄)	52	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017

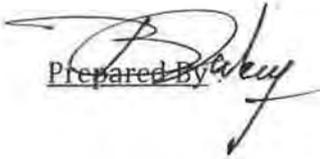
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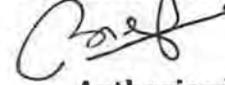


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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Total Hardness (as CaCO ₃)	172	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition) 3120B 2017
28.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
29.	Total coliform bacteria	<2		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)
30.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition) 2150B
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
33.	Total Dissolved Solids (as TDS)	427	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	<1.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	7.28 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B

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TEST REPORT

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

Report No. : MSK/KTN/2022-23/GDW/014
Date : 30/04/2022
Sample No. : MSKGL/ED/2022-23/04/02513
Date Of Sample : 02/04/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-2, Kapari Panchayat Bhawan

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	152	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	44	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	71	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
12.	Fluoride (as F)	0.48	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
15.	Iron (as Fe)	0.21	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
17.	Magnesium (as Mg)	7.3	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nitrate (as NO ₃)	25	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
23.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Sulphate (as SO ₄)	43	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017

Mitra S. K. Private Limited

Above Punjab National Bank
Maihar Road, NH-7
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Sl. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Total Hardness (as CaCO ₃)	178	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition) 3120B 2017
28.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
29.	Total coliform bacteria	<2		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)
30.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition) 2150B
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
33.	Total Dissolved Solids (as TDS)	270	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	3.2	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	7.28 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B

For Mitra S. K. Private Limited

Authorised Signatory

Prepared By:

Mitra S. K. Private Limited

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



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TEST REPORT

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

Report No. : MSK/KTN/2022-23/GDW/021
Date : 28/05/2022
Sample No. : MSKGL/ED/2022-23/05/00340
Date Of Sample : 06/05/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-2, Kapari Panchayat Bhawan

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	109	200	600	mg/l	APHA (23rd Edition) 2320B 2017_(O)
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_(O)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017_(O)
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_(O)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_(O)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23 rd Edition)2540C_(O)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
08.	Calcium (as Ca)	28	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017_(O)
09.	Chloride (as Cl)	33	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017_(O)
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_(O)
11.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017_(O)
12.	Fluoride (as F)	0.22	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017_(O)
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014_(O)
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B_(O)
15.	Iron (as Fe)	0.11	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017_(O)
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
17.	Magnesium (as Mg)	10	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017_(O)
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_(O)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014_(O)
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)

Mitra S. K. Private Limited

Above Punjab National Bank
Maihar Road, NH-7
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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
22.	Nitrate (as NO ₃)	1.9	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO3-E, 2017_(O)
23.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)_(O)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
25.	Sulphate (as SO ₄)	6.4	200	400	mg/l	APHA (23rd Edition) 4500-SO4 E 2017_(O)
26.	Total Hardness (as CaCO ₃)	114	200	600	mg/l	APHA (23rd Edition) 2340 C 2017_(O)
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017_(O)
28.	E.coli	Not Detected		NA	/100ml	APHA 23rd Edition 9221 F_(O)
29.	Total coliform bacteria	<1.8		NA	MPN/100ml	APHA 23rd Edition 9221 B_(O)
30.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017_(O)
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B_(O)
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012_(O)
33.	Total Dissolved Solids (as TDS)	188	500	2000	mg/l	APHA (23rd Edition) 2540C_(O)
34.	Turbidity	<1.0	1	5	N.T.U.	APHA (23rd Edition) 2130B_(O)
35.	pH	6.58 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B_(O)

For Mitra S. K. Private Limited



Authorised Signatory

Prepared By: *B. Dubey*

Mitra S. K. Private Limited



Above Punjab National Bank
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TEST REPORT

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

Report No. : MSK/KTN/2022-23/GDW/041
Date : 28/06/2022
Sample No. : MSKGL/ED/2022-23/06/02065
Date Of Sample : 10/06/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-2, Kapari Panchayat Bhawan

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	165	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	71	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	110	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
12.	Fluoride (as F)	0.54	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
15.	Iron (as Fe)	0.22	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
17.	Magnesium (as Mg)	22	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nitrate (as NO ₃)	32	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
23.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Sulphate (as SO ₄)	55	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017

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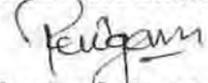
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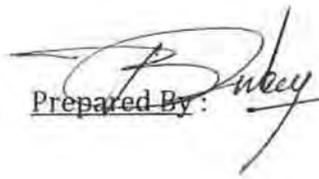


Above Punjab National Bank
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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Total Hardness (as CaCO ₃)	199	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition) 3120B 2017
28.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
29.	Total coliform bacteria	<2		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)
30.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition) 2150B
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
33.	Total Dissolved Solids (as TDS)	324	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	4.6	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	7.28 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B

For Mitra S. K. Private Limited


 Authorised Signatory

Prepared By: 

Mitra S. K. Private Limited



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

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

Report No. : MSK/KTN/2022-23/GDW/050
Date : 02/08/2022
Sample No. : MSKGL/ED/2022-23/07/02421
Date Of Sample : 20/07/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-3, Jorvat Village

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	220	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	74	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	186	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
12.	Fluoride (as F)	0.96	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
15.	Iron (as Fe)	0.09	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
17.	Magnesium (as Mg)	18	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nitrate (as NO ₃)	31	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
23.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Sulphate (as SO ₄)	49	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017

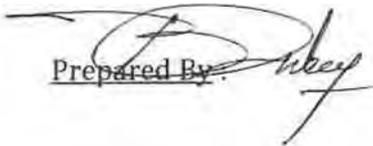
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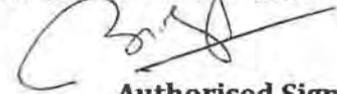


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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Total Hardness (as CaCO ₃)	278	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition) 3120B 2017
28.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
29.	Total coliform bacteria	<2		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)
30.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition) 2150B
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
33.	Total Dissolved Solids (as TDS)	398	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	<1.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	7.41 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B

Prepared By: 

For Mitra S. K. Private Limited



Authorised Signatory

Mitra S. K. Private Limited



Above Punjab National Bank
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TEST REPORT

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

Report No. : MSK/KTN/2022-23/GDW/048
Date : 02/08/2022
Sample No. : MSKGL/ED/2022-23/07/02419
Date Of Sample : 20/07/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-1, Kapari Transport Area

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

ANALYSIS RESULT

SL No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	210	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	59	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	38	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
12.	Fluoride (as F)	0.72	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
15.	Iron (as Fe)	0.18	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
17.	Magnesium (as Mg)	17	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nitrate (as NO ₃)	22	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
23.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Sulphate (as SO ₄)	19	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017

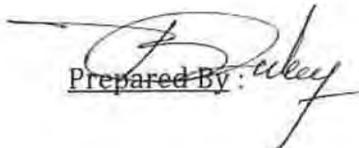
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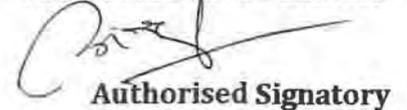


Above Punjab National Bank
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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Total Hardness (as CaCO ₃)	227	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition) 3120B 2017
28.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
29.	Total coliform bacteria	<2		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)
30.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition) 2150B
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
33.	Total Dissolved Solids (as TDS)	263	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	9	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	7.44 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B

Prepared By: 

For Mitra S. K. Private Limited


 Authorised Signatory

Mitra S. K. Private Limited



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 Maihar Road, NH-7, Kuthla,
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TEST REPORT

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

Report No. : MSK/KTN/2022-23/GDW/061
Date : 30/08/2022
Sample No. : MSKGL/ED/2022-23/08/01981
Date Of Sample : 19/08/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-3, Jorvat Village

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	198	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	71	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	162	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
12.	Fluoride (as F)	0.91	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
15.	Iron (as Fe)	0.14	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
17.	Magnesium (as Mg)	22	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nitrate (as NO ₃)	38	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
23.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Sulphate (as SO ₄)	52	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017

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Above Punjab National Bank
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sknigam@mitrask.co.in

Sl. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Total Hardness (as CaCO ₃)	222	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition) 3120B 2017
28.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
29.	Total coliform bacteria	<2		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)
30.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition) 2150B
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
33.	Total Dissolved Solids (as TDS)	321	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	<1.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	7.33 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B

For Mitra S. K. Private Limited

Authorised Signatory

Prepared By :

Mitra S. K. Private Limited



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

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

Report No. : MSK/KTN/2022-23/GDW/059
Date : 30/08/2022
Sample No. : MSKGL/ED/2022-23/08/01979
Date Of Sample : 19/08/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-1, Kapari Transport Area

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

ANALYSIS RESULT

Sl. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	179	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	51	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	31	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
12.	Fluoride (as F)	0.61	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
15.	Iron (as Fe)	0.21	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
17.	Magnesium (as Mg)	14	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nitrate (as NO ₃)	29	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
23.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Sulphate (as SO ₄)	32	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017

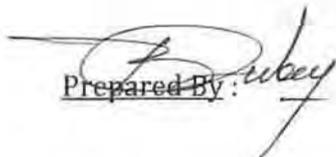
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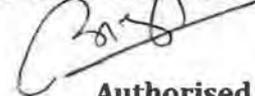


Above Punjab National Bank
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sknigam@mitrask.co.in

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Total Hardness (as CaCO ₃)	198	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition) 3120B 2017
28.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
29.	Total coliform bacteria	<2		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)
30.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition) 2150B
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
33.	Total Dissolved Solids (as TDS)	232	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	7	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	7.23 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B

Prepared By: 

For Mitra S. K. Private Limited



Authorised Signatory

Mitra S. K. Private Limited



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

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

Report No. : MSK/KTN/2022-23/GDW/072
Date : 29/09/2022
Sample No. : MSKGL/ED/2022-23/09/01932
Date Of Sample : 16/09/2022
Sample Description : Ground Drinking Water
Sample Mark : HP:3, Jorvat Village

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

ANALYSIS RESULT

Sl. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	171	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	72	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	189	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
12.	Fluoride (as F)	0.83	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
15.	Iron (as Fe)	0.21	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
17.	Magnesium (as Mg)	18	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nitrate (as NO ₃)	20	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO3-E, 2017
23.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Sulphate (as SO ₄)	76	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017

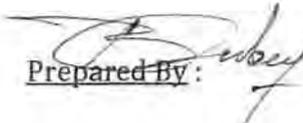
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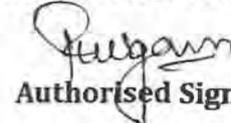


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sknigam@mitrask.co.in

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Total Hardness (as CaCO ₃)	198	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition) 3120B 2017
28.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
29.	Total coliform bacteria	<2		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)
30.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition) 2150B
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
33.	Total Dissolved Solids (as TDS)	333	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	<1.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	7.22 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B


 Prepared By:

For Mitra S. K. Private Limited


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Mitra S. K. Private Limited



Above Punjab National Bank
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sknigam@mitrask.co.in

TEST REPORT

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

Report No. : MSK/KTN/2022-23/GDW/070
Date : 29/09/2022
Sample No. : MSKGL/ED/2022-23/09/01930
Date Of Sample : 16/09/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-1, Kapari Transport Area

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UGM	METHOD
01.	Alkalinity (as CaCO ₃)	167	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	65	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	57	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
12.	Fluoride (as F)	0.44	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
15.	Iron (as Fe)	0.18	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
17.	Magnesium (as Mg)	19	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nitrate (as NO ₃)	32	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017
23.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Sulphate (as SO ₄)	39	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017

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Mitra S. K. Private Limited

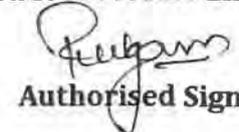


Above Punjab National Bank
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sknigam@mitrask.co.in

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Total Hardness (as CaCO ₃)	188	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition) 3120B 2017
28.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
29.	Total coliform bacteria	<2		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)
30.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition) 2150B
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
33.	Total Dissolved Solids (as TDS)	287	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	5	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	7.43 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B

Prepared By: 

For Mitra S. K. Private Limited


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TEST REPORT

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

Report No. : MSK/KTN/2022-23/NOISE/042-045
Date : 30/09/2022
Sample No. : MSKGL/ED/2022-23/09/01878 & 01880 To 0188
Date Of Sample : 22/09/2022
Sample Description : NOISE MONITORING

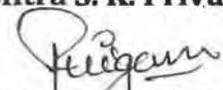
Ref. No. & Date : 9200000102. Dt -24/05/2021.

ANALYSIS RESULT

SL. No.	Location	Date Of Monitoring	Type Of Area	Results in Leq dB(A) Day Time	Results in Leq dB(A) Night Time
1.	CHP AREA	22.09.2022.	INSIDE PLANT	54.9	50.4
2.	FIRE STATION	22.09.2022.	INSIDE PLANT	44.4	40.1
3.	HORTICULTURE	22.09.2022.	INSIDE PLANT	43.3	39.8
4.	ITI COLLEGE	22.09.2022.	INSIDE PLANT	45.7	40.8

Prepared By: 

For Mitra S. K. Private Limited


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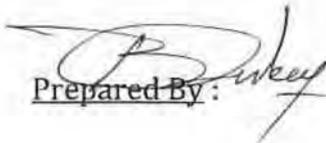
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
 Vill.: Khan Semra,
 Tehsil : Bara,
 Dist.: Prayagraj [Pin- 212107]
 Uttar Pradesh.

Report No. : MSK/KTN/2022-23/NOISE/034-037
Date : 02/09/2022
Sample No. : MSKGL/ED/2022-23/08/01964 & 01966 To 01968
Date Of Sample : 25/08/2022
Sample Description : NOISE MONITORING

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

ANALYSIS RESULT

Sl. No.	Location	Date Of Monitoring	Type Of Area	Results in Leq dB(A) Day Time	Results in Leq dB(A) Night Time
1.	CHP AREA	25.08.2022.	INSIDE PLANT	50.2	45.3
2.	FIRE STATION	25.08.2022.	INSIDE PLANT	49.3	43.1
3.	HORTICULTURE	25.08.2022.	INSIDE PLANT	44.7	40.1
4.	ITI COLLEGE	25.08.2022.	INSIDE PLANT	41.8	38.2


 Prepared By :

For Mitra S. K. Private Limited


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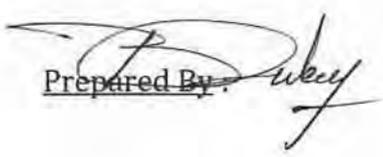
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
 Vill.: Khan Semra,
 Tehsil : Bara,
 Dist.: Prayagraj [Pin- 212107]
 Uttar Pradesh.

Report No. : MSK/KTN/2022-23/NOISE/026-029
Date : 30/07/2022
Sample No. : MSKGL/ED/2022-23/07/02426 & 02428 To 02430
Date Of Sample : 20/07/2022
Sample Description : NOISE MONITORING

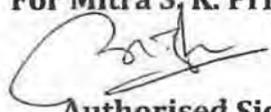
Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

SL. No.	Location	Date Of Monitoring	Type Of Area	Results in Leq dB(A) Day Time	Results in Leq dB(A) Night Time
1.	CHP AREA	20.07.2022.	INSIDE PLANT	51.8	47.8
2.	FIRE STATION	20.07.2022.	INSIDE PLANT	47.3	42.7
3.	HORTICULTURE	20.07.2022.	INSIDE PLANT	43.9	39.4
4.	ITI COLLEGE	20.07.2022.	INSIDE PLANT	40.8	37.5

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Page 1 of 1

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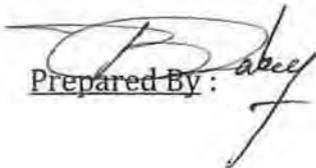
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
 Vill.: Khan Semra,
 Tehsil : Bara,
 Dist.: Prayagraj [Pin- 212107]
 Uttar Pradesh.

Report No. : MSK/KTN/2022-23/NOISE/018-021
Date : 02/07/2022
Sample No. : MSKGL/ED/2022-23/06/02071 & 02073 To 02075
Date Of Sample : 23/06/2022
Sample Description : NOISE MONITORING

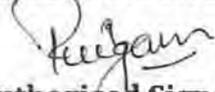
Ref. No. & Date : 9200000102. Dt-24/05/2021.

ANALYSIS RESULT

SL. No.	Location	Date Of Monitoring	Type Of Area	Results in Leq dB(A) Day Time	Results in Leq dB(A) Night Time
1.	CHP AREA	23.06.2022.	INSIDE PLANT	54.1	51.3
2.	FIRE STATION	23.06.2022.	INSIDE PLANT	44.3	40.4
3.	HORTICULTURE	23.06.2022.	INSIDE PLANT	48.6	41.8
4.	ITI COLLEGE	23.06.2022.	INSIDE PLANT	45.9	40.1

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For Mitra S. K. Private Limited


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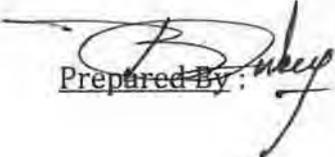
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2022-23/NOISE/010-013
Date : 30/05/2022
Sample No. : MSKGL/ED/2022-23/05/02225 & 02227 To 02229
Date Of Sample : 23/05/2022
Sample Description : NOISE MONITORING

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

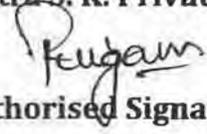
ANALYSIS RESULT

SL. No.	Location	Date Of Monitoring	Type Of Area	Results in Leq dB(A) Day Time	Results in Leq dB(A) Night Time
1.	CHP AREA	23.05.2022.	INSIDE PLANT	51.5	40.1
2.	FIRE STATION	23.05.2022.	INSIDE PLANT	49.8	40.5
3.	HORTICULTURE	23.05.2022.	INSIDE PLANT	43.5	40.1
4.	ITI COLLEGE	23.05.2022.	INSIDE PLANT	49.2	43.8

Prepared By: 

For Mitra S. K. Private Limited




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Above Punjab National Bank
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TEST REPORT

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

Report No. : MSK/KTN/2022-23/NOISE/002-005
Date : 30/04/2022
Sample No. : MSKGL/ED/2022-23/04/02504 & 02506 To 02508
Date Of Sample : 25/04/2022
Sample Description : NOISE MONITORING

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

ANALYSIS RESULT

SL. No.	Location	Date Of Monitoring	Type Of Area	Results in Leq dB(A) Day Time	Results in Leq dB(A) Night Time
1.	CHP AREA	25.04.2022.	INSIDE PLANT	54.2	41.9
2.	FIRE STATION	25.04.2022.	INSIDE PLANT	52.8	42.5
3.	HORTICULTURE	25.04.2022.	INSIDE PLANT	53.4	42.9
4.	ITI COLLEGE	25.04.2022.	INSIDE PLANT	52.4	41.5

Prepared By:

For Mitra S. K. Private Limited

Authorised Signatory

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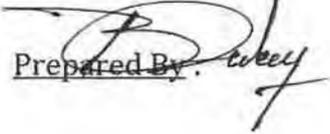
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2022-23/AA/050-053
Date : 02/05/2022
Sample No. : MSKGL/ED/2022-23/04/02445-02448
Date Of Sample : 04/04/2022
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

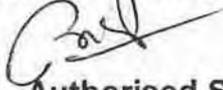
Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
1.	CHP Area	87	44.2	7.1	29.1
2.	Fire Station	81.3	41.2	7.9	30.2
3.	Horticulture	88.2	46.3	6.7	31.8
4.	ITI College	72	38.3	9.2	25.4
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


Authorised Signatory

Mitra S. K. Private Limited

Above Punjab National Bank
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CIN : U51909WB1956PTC023037



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sknigam@mitrask.co.in

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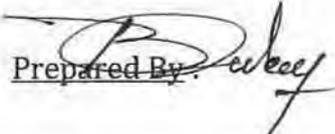
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2022-23/AA/054-056
Date : 02/05/2022
Sample No. : MSKGL/ED/2022-23/04/02449-02451
Date Of Sample : 05/04/2022
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

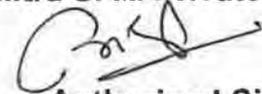
Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
1.	Lohgara Village	70.5	46.9	10.2	36.7
2.	Bemara Village	65.8	38.8	10	39.2
3.	Kapari Village	73.2	41.3	10.8	43.7
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited



Authorised Signatory

Mitra S. K. Private Limited

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



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sknigam@mitrask.co.in

TEST REPORT

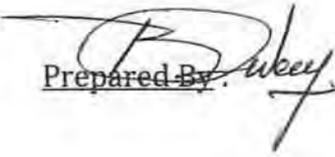
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2022-23/AA/099-102
Date : 02/06/2022
Sample No. : MSKGL/ED/2022-23/05/02176-02179
Date Of Sample : 02/05/2022
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

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

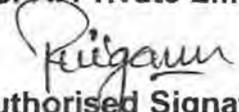
ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
1.	CHP Area	84.9	46.2	9.7	24.5
2.	Fire Station	82.5	45.8	9.2	27.8
3.	Horticulture	87.5	46.9	9.4	26.6
4.	ITI College	75.1	47.7	7.5	19.7
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited




Authorised Signatory

Mitra S. K. Private Limited

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



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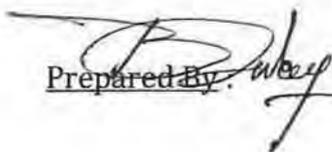
Name & Address of the Customer :
 Prayagraj Power Generation Company Ltd.
 Vill.: Khan Semra,
 Tehsil : Bara,
 Dist.: Prayagraj [Pin- 212107]
 Uttar Pradesh.

Report No. : MSK/KTN/2022-23/AA/103-105
Date : 02/06/2022
Sample No. : MSKGL/ED/2022-23/05/02180-02182
Date Of Sample : 03/05/2022
Sample Description : AMBIENT AIR MONITORING
 (OUTSIDE THE PLANT)

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

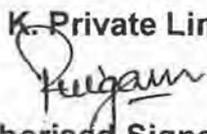
ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
1.	Lohgara Village	88.5	45.8	9.2	27.8
2.	Bemara Village	87.5	46.9	9.4	26.6
3.	Kapari Village	76.8	37.4	8.4	29.6
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited




 Authorised Signatory

Mitra S. K. Private Limited



Above Punjab National Bank
 Maihar Road, NH-7, Kuthla,
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sknigam@mitrask.co.in

TEST REPORT

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

Report No. : MSK/KTN/2022-23/AA/148-151
Date : 04/07/2022
Sample No. : MSKGL/ED/2022-23/06/02014-02017
Date Of Sample : 01/06/2022
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

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

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	CHP Area	88.3	46.2	16.1	21.5
2.	Fire Station	84.1	43.3	18.3	28.4
3.	Horticulture	87.6	47.3	19.2	33.6
4.	ITI College	86.9	45.4	16.8	23.8
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By:

For Mitra S. K. Private Limited

Authorised Signatory

Mitra S. K. Private Limited



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 Katni – 483501 (M.P.)
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sknigam@mitrask.co.in

TEST REPORT

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

Report No. : MSK/KTN/2022-23/AA/152-154
Date : 04/07/2022
Sample No. : MSKGL/ED/2022-23/06/02018-02020
Date Of Sample : 02/06/2022
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

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

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
1.	Lohgara Village	85.5	48.1	11.9	22.8
2.	Bemara Village	86.2	46.5	13.7	22.7
3.	Kapari Village	88.3	49.7	15.3	25.3
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By .

For Mitra S. K. Private Limited

Authorised Signatory

Mitra S. K. Private Limited



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

TEST REPORT

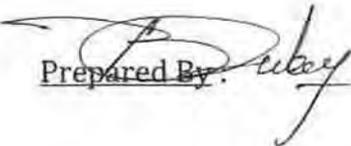
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
 Vill.: Khan Semra,
 Tehsil : Bara,
 Dist.: Prayagraj [Pin- 212107]
 Uttar Pradesh.

Report No. : MSK/KTN/2022-23/AA/200-203
Date : 03/08/2022
Sample No. : MSKGL/ED/2022-23/07/02373-02376
Date Of Sample : 04/07/2022
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

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

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
1.	CHP Area	84.7	47.9	13.2	36.5
2.	Fire Station	75.6	42.7	18.9	29.8
3.	Horticulture	88.4	39.4	12.4	31.4
4.	ITI College	82.9	44.6	16.1	27.7
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


 Authorised Signatory

Mitra S. K. Private Limited



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

TEST REPORT

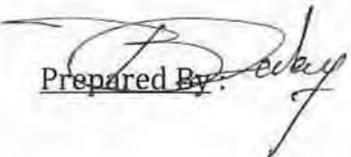
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2022-23/AA/204-206
Date : 03/08/2022
Sample No. : MSKGL/ED/2022-23/07/02377-02379
Date Of Sample : 05/07/2022
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

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

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
1.	Lohgara Village	86.3	47.7	16.8	26.7
2.	Bemara Village	69.1	45.4	13.7	23.9
3.	Kapari Village	84.7	42.8	12.4	26.1
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


 Authorised Signatory

Mitra S. K. Private Limited



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

TEST REPORT

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

Report No. : MSK/KTN/2022-23/AA/246-249
Date : 31/08/2022
Sample No. : MSKGL/ED/2022-23/08/01410-01413
Date Of Sample : 02/08/2022
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

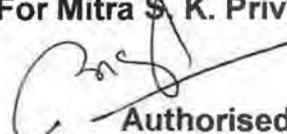
Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
1.	CHP Area	89.6	40.6	11.6	34.1
2.	Fire Station	71.6	34.5	8.5	27.1
3.	Horticulture	70.6	37.5	9.2	24.5
4.	ITI College	85.2	48.5	9.6	29.6
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


 Authorised Signatory

Mitra S. K. Private Limited



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

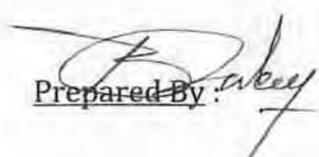
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2022-23/AA/250-252
Date : 31/08/2022
Sample No. : MSKGL/ED/2022-23/08/01414-01416
Date Of Sample : 03/08/2022
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

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

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
1.	Lohgara Village	71.8	29.6	7.7	30.8
2.	Bemara Village	74.5	37.5	9.6	20.6
3.	Kapari Village	47.8	20.4	7.8	26.2
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


 Authorised Signatory

Mitra S. K. Private Limited



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

TEST REPORT

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

Report No. : MSK/KTN/2022-23/AA/295-298
Date : 02/10/2022
Sample No. : MSKGL/ED/2022-23/09/01829-01832
Date Of Sample : 02/09/2022
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

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

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
1.	CHP Area	81.2	39.3	9.2	31.2
2.	Fire Station	76.4	31.8	8.8	22.9
3.	Horticulture	71.3	34.5	7.4	14.3
4.	ITI College	79.1	40.1	9.9	25.7
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By :

For Mitra S. K. Private Limited

Authorised Signatory

Mitra S. K. Private Limited



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

TEST REPORT

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

Report No. : MSK/KTN/2022-23/AA/299-301
Date : 02/10/2022
Sample No. : MSKGL/ED/2022-23/09/01833-01835
Date Of Sample : 03/09/2022
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

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

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	Lohgara Village	51.3	27.9	9.5	30.4
2.	Bemara Village	79.1	38.4	8.7	42.8
3.	Kapari Village	64.5	37.1	9.2	34.6
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By :

For Mitra S. K. Private Limited

Authorised Signatory

ULR-TC66652000000 2023 F



क्रम सं. / SL NO. : 497 A 49623

विआप्रबो / बीएआरसी वाशी कॉम्प्लेक्स,
BRIT/ BARC Vashi Complex,
सेक्टर-20, वाशी / Sec-20, Vashi,
नवी मुंबई / Navi Mumbai-400 703
www.britatom.gov.in

भारत सरकार / GOVERNMENT OF INDIA

परमाणु ऊर्जा विभाग / DEPARTMENT OF ATOMIC ENERGY

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

रेडियोसक्रियता परीक्षण प्रमाण-पत्र / RADIOACTIVITY TEST CERTIFICATE

PAGE 1 OF 1

RADIOANALYTICAL LABORATORY

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

NOV 24, 2020

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

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

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

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

Date of receipt of sample : 24.10.2020

Date of completion of test : 17.11.2020

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

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

checked by:

Authorized Signatory

24-11-20

अजय न. थाम्बे / Ajay N. Thambe

वैज्ञानिक अधिकारी / Scientific Officer

रेडियोसक्रियता परीक्षण प्रयोगशाला / Radioanalytical Laboratory

"Bhabha Atomic Research Centre"

विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

Board of Radiation & Isotope Technology

सेक्टर-20, वाशी कॉम्प्लेक्स / Vashi Complex

नवी मुंबई / Navi Mumbai-400 703





Roof Top Solar Panel – 204 kW


TRUE COPY



PPGCL/ENV/FY 21/245

Date-28.01.2021

To,

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

Sub: Compliance of Consent to Operate condition

Ref: Consent order ref no.102011 and 102087 dated 29.12.2020

Dear Sir,

With reference to the above-mentioned subject and consent to operate granted to us, please find attached point wise compliance status of the consent condition. Further, the compliance status shall be submitted periodically as directed in the order to your good office.

This is for your information and record please.

Sincerely,

For Prayagraj Power Generation Company Limited

K R Bairwa

Chief-O&M Services

Encl: - Compliance of consent condition with Annexure I toIX

CC. Regional Officer
U.P. Pollution Control Board,
Sector-10, Yojna No.-03,
Avas Vikas Parishad Colony, Jhansi,
Distt – Prayagraj (Allahabad)

श्रीमती सिंघ
30/01/2021



CONDITIONS OF CONSENT-AIR

Sl.No	Condition	Status																														
1	This consent is valid only for the approved production capacity of electricity generation -1980 MW (3×660 MW)	Agreed.																														
2	This consent is valid only for products and quantity mentioned above. Industry shall obtain prior approval before making any modification in product/process/fuel/plant machinery failing which consent would be deemed void.	Noted.																														
3	<p>(a) The maximum rate of emission of flue gas should not be more than the emission norms for the stacks.</p> <p>(b) Air Pollution source details.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="6" style="text-align: center;">AIR Pollution Source Details</th> </tr> <tr> <th style="width: 15%;">Air pollution Source</th> <th style="width: 15%;">Air pollution Source</th> <th style="width: 10%;">Type of Fuel</th> <th style="width: 10%;">Stack No.</th> <th style="width: 15%;">Parameters</th> <th style="width: 15%;">Height</th> </tr> </thead> <tbody> <tr> <td>Boiler-1(Cap.2095 TPH) attached to 1×660 MW unit</td> <td>Boiler-1(Cap.2095 TPH) attached to 1×660 MW unit</td> <td>Coal</td> <td>01</td> <td>Particulate Matter</td> <td>275 meter from ground level with ESP.</td> </tr> <tr> <td>Boiler-2 (Cap.2095 TPH) attached to 1×660 MW unit</td> <td>Boiler-2 (Cap.2095 TPH) attached to 1×660 MW unit</td> <td>Coal</td> <td>02</td> <td>Particulate Matter</td> <td>275 meter from ground level with ESP.</td> </tr> <tr> <td>Boiler-3 (Cap.2095 TPH) attached to 1×660 MW unit</td> <td>Boiler-3 (Cap.2095 TPH) attached to 1×660 MW unit</td> <td>Coal</td> <td>03</td> <td>Particulate Matter</td> <td>275 meter from ground level with ESP.</td> </tr> </tbody> </table> <p>(c) The emissions by various stacks into the environment should be as per the norms of the Board.</p>	AIR Pollution Source Details						Air pollution Source	Air pollution Source	Type of Fuel	Stack No.	Parameters	Height	Boiler-1(Cap.2095 TPH) attached to 1×660 MW unit	Boiler-1(Cap.2095 TPH) attached to 1×660 MW unit	Coal	01	Particulate Matter	275 meter from ground level with ESP.	Boiler-2 (Cap.2095 TPH) attached to 1×660 MW unit	Boiler-2 (Cap.2095 TPH) attached to 1×660 MW unit	Coal	02	Particulate Matter	275 meter from ground level with ESP.	Boiler-3 (Cap.2095 TPH) attached to 1×660 MW unit	Boiler-3 (Cap.2095 TPH) attached to 1×660 MW unit	Coal	03	Particulate Matter	275 meter from ground level with ESP.	Complied.
AIR Pollution Source Details																																
Air pollution Source	Air pollution Source	Type of Fuel	Stack No.	Parameters	Height																											
Boiler-1(Cap.2095 TPH) attached to 1×660 MW unit	Boiler-1(Cap.2095 TPH) attached to 1×660 MW unit	Coal	01	Particulate Matter	275 meter from ground level with ESP.																											
Boiler-2 (Cap.2095 TPH) attached to 1×660 MW unit	Boiler-2 (Cap.2095 TPH) attached to 1×660 MW unit	Coal	02	Particulate Matter	275 meter from ground level with ESP.																											
Boiler-3 (Cap.2095 TPH) attached to 1×660 MW unit	Boiler-3 (Cap.2095 TPH) attached to 1×660 MW unit	Coal	03	Particulate Matter	275 meter from ground level with ESP.																											

Emission Quality Details Detail			
Sl.No	Stack No	Parameter	Standard
1	01	Particulate Matter	50 mg/Nm ³
2	01	Sulphur Dioxide	200 mg/Nm ³
3	01	Oxides of Nitrogen	300 mg/Nm ³
4	02	Particulate Matter	50 mg/Nm ³
5	02	Sulphur Dioxide	200 mg/Nm ³
6	02	Oxides of Nitrogen	300 mg/Nm ³
7	03	Particulate Matter	50 mg/NM ³
8	03	Sulphur Dioxide	200 mg/Nm ³
9	03	Oxides of Nitrogen	300 mg/Nm ³

The latest stack monitoring report is attached as Annexure -I
As per MoEF&CC notification dated 19th Oct 2020 limit for NO_x emission has been revised to 450 mg/Nm³ from 300 mg/Nm³ for the units commissioned before 31st Dec 2016.

4	Quantity of other pollutants should also be as per the norms prescribed by the Board/MoEF & CC/ or otherwise mandatory.	Noted.
5	The equipment for air pollution control system and monitoring, as proposed by the industry and approved by the Board should be installed in their premises itself.	Complied.
6	The modification or installation in the existing pollution control equipments should be done only by prior approval of Board.	Noted.
7	The operation of air pollution control system and maintenance be done in such a way that the quantity of pollutants should be in accordance with the standards prescribed by the Bord/MoEF & CC/or otherwise mandatory.	Noted.
8	Unit should do provisions for fugitive emissions chimney/stack as per the norms of the Board/MoEF &CC/or otherwise mandatory.	Complied.
9	The unit should submit the stack emission monitoring report within one month from issuance of consent order along with the point wise compliance report of the consent order. Further quarterly monitoring report should be submitted.	Agreed. The latest stack monitoring report is attached as Annexure-I
10	The Unit will file the renewal application at least 2 months prior to the expiry of this Order.	Noted.

Specific Conditions

Sl.NO	Condition	Status
1	This consent is valid for electricity generation -1980 MW (3x660 MW).	Agreed.
2	The industry shall comply with the stack emission standards notified by MoEF & CC vide notification dated 07-12-2015 and Ambient air quality standard 2009.	The latest stack monitoring report is attached as annexure -I. The latest ambient air quality monitoring report is attached as Annexure-II.
3	The industry shall effectively operate and maintain Online Continuous Emission Monitoring System and data shall be transmitted to CPCB server. OCEMS shall be calibrated on 6 monthly basis through recognized agency and calibration certificate shall be submitted to UPPCB.	OCEMS is in operation and data being transferred to CPCB server. Calibration report will be submitted on six monthly basis.
4	Bag filters at coal crusher house and dust suppression system at wagon tippler & transfer points shall be operated effectively and continuously.	Being Complied.
5	The industry shall comply with the conditions of Environment Clearance issued by MoEF & CC Govt of India.	The compliance status of environment clearance is being submitted regularly. Last report was submitted on 30.11.2020.
6	Industry shall comply with the conditions of NOC issued by the Board vide letter dated 10-03-2011.	Complied.
7	Industry shall comply with the Fly Ash notification No.S.O.254(E). dated 25-01-2016 of MoEF & CC Govt. of India. Proposal for Fly ash utilization shall be submitted within 01 month and detail of Fly ash disposal shall be submitted on quarterly basis to UPPCB.	Proposed of fly ash utilisation is attached as Annexure-III. Last quarterly report was submitted on 21.01.2021
8	Industry shall maintain effective dust separation / collection system at Coal Handling and Transportation point in such manner so that Ambient Air Quality is not affected at nearby place and Ambient air quality shall be monitored on regular basis and its report shall be submitted on quarterly basis to the UPPCB.	Being complied. Ambient air quality is being monitored regularly. The photograph of dust suppression system is attached as Annexure-IV
9	ESPs shall be maintained so as to achieve the emission standards as prescribed under Environment (Protection) Rules 1986. Industry shall submit the Stack emission and Ambient Air quality monitoring report of Board's Laboratory /NABL accredited Laboratory on quarterly basis.	Agreed. Latest stack and ambient air quality report is attached as Annexure I & II.
10	Industry shall develop and maintain green belt as per the guidelines issued by the Board vide office order dated 16/02/2018, which is available on Board's Website -www.uppcb.com. The Proposal for plantation in the coming monsoon shall be submitted within 01 month.	Green belt has been developed and being maintained. We have planted approx. 2, 88,540 no's of sapling till September 2020. During July 20 to Sep 20, we have planted 14,500 saplings. The area where plantation will be done during coming monsoon is marked on the plot plan. The sapling will be planted as per the guidelines mentioned in the order dated 16.02.2018. Please refer Annexure-V.

11	Bottom Ash shall be disposed as per guidelines of MoEF & CC and report shall be submitted to the Board with in 01 month.	Being complied. The report of quarterly fly ash (fly ash, bottom ash and pond ash) utilisation is attached as Annexure-VI.
12	Industry shall comply with various provisions of Hazardous and Other waste (Management & Transboundary Movement) Rule 2016. Detail of hazardous waste disposal shall be submitted in Form-10.	Being complied. Manifest document (form 10) will be submitted as and when hazardous waste will be disposed.
13	Noise level emanating from turbines shall not exceed the prescribed limit of 75 dBA for work zone in the premises.	The Noise level report of turbine floor is attached as Annexure -VII.
14	Industry shall submit environmental statement in prescribed format as per rule 14 of Environment(Protection)Act,1986.	Agreed. Last report was submitted on 07.09.2020.
15	Industry shall abide by directions given by Hon'ble Courts, MoEF & CC, Central Pollution Control Board and UPPCB for protection and safeguard of environment from time to time.	Noted.
16	Unit shall ensure the compliance of office memorandum dated 28-08-2019 issued by MoEF & CC regarding disposal of fly ash.	Noted.
17	Industry shall comply with the Office memorandum no. H 48/273/C-1/NGT-83/2020 dated 27.02.2020 issued by UPPCB.	Noted.
18	Consent fees if revised, shall be payable by industry from the date of its applicability.	Noted.
19	Industry shall comply with the relevant provisions of Environmental Laws.	Noted.
20	If closure order is issued by CPCB or UPPCB against the unit, then CTO issued earlier will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CTO will automatically be effective with additional conditions mentioned in the closure revocation order.	Noted.

CONDITIONS OF CONSENT-WATER

Sl.No	Condition	Status																
1.	This consent is valid only for the approved production capacity of electricity generation -1980MW (3×660 MW).	Agreed																
2.	<p>The quantity of maximum daily effluent discharge should not be more than the following:</p> <table border="1" data-bbox="220 667 922 1624"> <thead> <tr> <th colspan="4">Effluent Discharge Details</th> </tr> <tr> <th>S.No</th> <th>Kind of Effluent</th> <th>Maximum daily discharge, KL/day</th> <th>Treatment facility and discharge point</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Domestic</td> <td>400 KLD treated effluent shall be reused for dust suppression and irrigation.</td> <td>STP</td> </tr> <tr> <td>2</td> <td>Industrial</td> <td>15000 KLD treated effluent shall be 100 % Recycled in process, dust suppression and irrigation. Ash pond water shall be recycled through AWRS and shall maintain zero effluent Discharge.</td> <td>ETP</td> </tr> </tbody> </table>	Effluent Discharge Details				S.No	Kind of Effluent	Maximum daily discharge, KL/day	Treatment facility and discharge point	1	Domestic	400 KLD treated effluent shall be reused for dust suppression and irrigation.	STP	2	Industrial	15000 KLD treated effluent shall be 100 % Recycled in process, dust suppression and irrigation. Ash pond water shall be recycled through AWRS and shall maintain zero effluent Discharge.	ETP	Agreed
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2	Industrial	15000 KLD treated effluent shall be 100 % Recycled in process, dust suppression and irrigation. Ash pond water shall be recycled through AWRS and shall maintain zero effluent Discharge.	ETP															
3	Arrangement should be made for collection of water used in process and domestic effluent separately in closed water supply system. The treated domestic And industrial effluent if discharged outside the premises, if meets at the end of final discharge point, arrangement should be made for measurement of effluent and for collecting its sample. Except the effluent informed in the application for consent no other effluent should enter in the said arrangements for collection of	Separate arrangement has been made for collection of process and domestic effluent.																

	Effluent. It should also be ensured that domestic effluent should not be discharged in storm water drain.																															
4	<p>(a) The domestic effluent should be treated in treatment plants so that the should be in conformity with the following norms dated treated effluent.</p> <table border="1"> <thead> <tr> <th colspan="2">Domestic Effluent</th> </tr> <tr> <th>Parameter</th> <th>Standard</th> </tr> </thead> <tbody> <tr> <td>Total Suspended Solid</td> <td>As per notification of MoEF & CC.</td> </tr> <tr> <td>BOD</td> <td>As per notification Of MoEF &CC.</td> </tr> <tr> <td>COD</td> <td>As per notification Of MoEF &CC</td> </tr> <tr> <td>OIL &Grease</td> <td>As per notification Of MoEF &CC</td> </tr> </tbody> </table> <p>(b) The industrial effluent should be treated in treatment plant so that the treated effluent should be in conformity with the following norms.</p> <table border="1"> <thead> <tr> <th colspan="3">Industrial effluent</th> </tr> <tr> <th>SL.NO</th> <th>Parameter</th> <th>Standard</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Total Suspended solid</td> <td>100 mg/l</td> </tr> <tr> <td>2</td> <td>BOD</td> <td>30 mg/l</td> </tr> <tr> <td>3</td> <td>COD</td> <td>250 mg/l</td> </tr> <tr> <td>4</td> <td>OIL & Grease</td> <td>10 mg/l</td> </tr> </tbody> </table>	Domestic Effluent		Parameter	Standard	Total Suspended Solid	As per notification of MoEF & CC.	BOD	As per notification Of MoEF &CC.	COD	As per notification Of MoEF &CC	OIL &Grease	As per notification Of MoEF &CC	Industrial effluent			SL.NO	Parameter	Standard	1	Total Suspended solid	100 mg/l	2	BOD	30 mg/l	3	COD	250 mg/l	4	OIL & Grease	10 mg/l	<p>Being complied. Please Refer Annexure-VIII.</p> <p>Being complied. Please refer Annexure-IX.</p>
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5	Effluent generated in all the processes, bleed water, cooling effluent and the effluent generated from washing of floor and equipment etc should be treated before its disposal with treated industrial effluent so that it should be according to the norms prescribed under The Environment (Protection) Act,1986 or otherwise mandatory.	Process effluent is being treated.																														
6	The other pollutant for which norms have not been prescribed, the same should not be more than the norms prescribed for the water used in manufacturing process of the industry.	Noted.																														
7	The method for collecting industrial and domestic effluent and its analysis should be as per legal Indian standards and its subsequent amendments/standards prescribed under the Environment (protection) Act,1986.	Being complied.																														
8	The treated domestic and industrial effluent be mixed (as per the provisions of Condition No.2) and disposed of on one disposal point. This common effluent disposal point should have arrangement for flow meter/V Notch for measuring effluent and its logbook be maintained.	Treated domestic and industrial effluent is not mixed.																														
9	The unit will file the renewal application at least 2 months prior to the expiry of this Order.	Noted.																														

Specific Conditions

Sl. NO.	Condition	Status
1	This consent is valid for electricity generation -1980 MW (3x660 MW).	Agreed
2	Thermal Power Plant shall ensure that water consumption does not exceed 3.5 cubic meter/MWh as laid down for Thermal Power plant commissioned before 01.01.2017.	Specific raw water consumption is less than the prescribed standard of 3.5 m3/MWh. For the current financial year till Dec'20 it is 2.17 m3/MWh.
3	The industry shall install Electro Magnetic Flow meter at water withdrawal source, inlet of ETP and STP. The logbook of flow meter reading shall be maintained.	Water meter at withdrawal source has been installed and record being maintained. Flow in ETP and STP is calculated based on pump capacity and running hour. Flow meter will be installed.
4	Industry shall treat DM plant, Back wash, Cooling Tower Blow down effluent through RO based ETP. RO reject shall be used for Ash slurry and sent to Ash pond and recycle permeate in the process. Ash pond water shall be 100% recycled through AWRS and shall maintain zero effluent discharge.	Effluent being treated and recycled.
5	Domestic effluent shall be treated through STP and treated water shall be used for irrigation and water sprinkling within the premises.	Being complied. Treated water is being used in horticulture.
6	The industry shall operate and maintain Online Continuous Effluent Monitoring System effectively and data shall be transmitted to CPCB server. OCEMS system shall be calibrated on six monthly bases through recognized agency and calibration certificate should be submitted to UPPCB.	OCEMS has been installed. Calibration report will be submitted on six monthly basis.
7	The industry shall comply with the conditions of Environmental Clearance issued by MoEF & CC Govt of India and its compliance report should be submitted to UPPCB regularly.	The compliance status of environment clearance is being submitted regularly. Last report was submitted on 30.11.2020.
8	Industry shall comply with the conditions of NOC issued by the Board vide letter dated 10.03.2011.	Complied
9	Industry shall comply with the Fly Ash notification No. S.O. 254(E), dated 25.01.2016 of MoEF & CC Govt. of India. Proposal for fly ash utilization shall be submitted within 01 month and detail of Fly ash disposal shall be submitted on quarterly basis to UPPCB.	Proposed of fly ash utilisation is attached as Annexure-III. Last quarterly report was submitted on 21.01.2021
10	Hydrological studies shall be carried out every six months to assess the impact on ground water especially around the ash dykes. Specific mitigation shall be undertaken.	Pre and Post monsoon hydrology study was carried out during June'20 and Dec'20. Again pre monsoon and post monsoon study will be carried out and report will be submitted.
11	Industry shall install PTZ camera at AWRS and re-circulation points for surveillance of effective operation within 01 month and shall provide the URL and password to the Board.	PTZ camera has been installed. The URL and Password has been provided to the Board vide letter no.-PPGCL/ENV/FY 21/42 dated 12.09.2020.
12	Ground water shall be monitored by any NABL accredited laboratory on quarterly basis nearby ash dikes and analysis	Ground water is being monitored regularly. Report will be submitted on quarterly basis.

	report with respect to heavy metals shall be sent to UPPCB.	
13	Storm Water drain shall be kept separate in such manner that, industrial effluent does not get mixed with storm water.	Noted.
14	Industry shall develop and maintain green belt as per the guidelines issued by the Board vide office order dated 16/02/2018, which is available on Board's Website-www.uppcb.com. The proposal for plantation in the coming monsoon shall be submitted within 01 month.	Green belt has been developed and being maintained. We have planted approx. 2, 88,540 no's of sapling till September 2020. During July 20 to Sep 20, we have planted 14,500 saplings. The area where plantation will be done during coming monsoon is marked on the plot plan. The sapling will be planted as per the guidelines mentioned in the order dated 16.02.2018. Please refer Annexure-V.
15	Industry shall comply with various provisions of Hazardous and Other waste (Management & Trans-boundary Movement) Rule 2016.	Agreed.
16	Industry shall submit environmental statement in prescribed format as per rule 14 of Environment (Protection) Act,1986.	Agreed. Last report was submitted on 07.09.2020.
17	Industry shall abide by directions given by directions given by Hon'ble Court, MoEF & CC, Central Pollution Control Board and UPPCB for protection and safeguard of environment from time to time.	Noted.
18	Unit shall ensure the compliance of office memorandum dated 28-08-2019 issued by MoEF & CC regarding disposal of fly ash.	Noted.
19	Industry shall comply with the Office memorandum no. H 48/273/C-1/NGT-83/2020 dated 27.02.2020 issued by UPPCB.	Noted.
20	Consent fees if revised, shall be payable by industry from the date of its applicability.	Noted.
21	Industry shall comply with the relevant provisions of Environmental Laws.	Noted.
22	IF closure order is issued by CPCB or UPPCB against the unit, then CTO issued earlier will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CTO will automatically be effective with additional conditions mentioned in the closure revocation order.	Noted.

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

FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack-1/12/21

TEST REPORT ISSUE DATE: 08.01.2021

TEST REPORT OF FLUE GAS EMISSION*

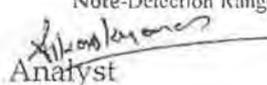
Name of the Customer : M/s Prayagraj Power Generation Company Ltd.
 Address of the Customer : P.O.-Lohgara, Tehsil- Bara
 Distt. Prayagraj (Allahabad),
 (U.P)-212107
 Date of Monitoring : 24.12.2020
 Sample Collected by : Mr. Arvind Singh & Mr. Ashok Kumar
 Sampling Method : IS: 11255
 Instrument Used : Stack Monitoring Kit & Gas Analyzer
 Source of Emission : Boiler Emission

Details of Stack

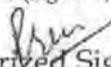
Material of Construction : M.S.
 Stack Attached to : ESP
 Capacity : Unit-I
 Stack Height :
 i) Stack Height of Platform Level (m) : 80.0
 ii) Stack Height of Ground Level (m) : 275.0
 Stack Top : Circular
 Inside Diameter of Stack at sampling port (m) : 7.40
 Cross Sectional Area of Duct/ Stack (m²) : 42.98
 Ambient Temp. (°C) : 23.0
 Stack Gas Temp. (°C) : 111.0
 Exit Velocity of Gas (m/sec.) : 22.82
 Gas Volume qty. (Nm³/sec.) : 707.0
 Type of Fuel : Coal
 Avg. Quantity of Fuel Consumption (Tons/hr.) : 332.0
 Capacity (MW) : 660.0
 Avg. Load of Sampling Time (MW) : 580.0
 Moisture (%) : 2.53

Sl. No.	Tests Conducted	Method	Pollutant Concentration at	Limit as per CPCB
1.	Particulate Matter (PM) In mg/Nm ³ (6% O ₂ Correction)	IS:11255 (Part-1)	40.6	50.0
2.	Sulphur Dioxide (SO ₂) In mg/Nm ³ (6% O ₂ Correction)	IS:11255 (Part-2)	445.0	200
3.	Nitrogen Oxides (NO _x) In mg/Nm ³ (6% O ₂ Correction)	IS:11255 (Part-7)	215.0	450
4.	Oxygen (O ₂) %	By Fuel Gas Analyzer	9.8	-
5.	Carbon Dioxide (CO ₂) %	By Fuel Gas Analyzer	7.37	-
6.	Mercury (Hg) (mg/Nm ³)	AAS/ICP	<0.01	-

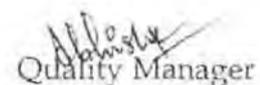
*The results are related only to tested item.

Note-Detection Range for Mercury: 0.01 to 1.0 (mg/Nm³)


Analyst



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FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack-1/12/21

TEST REPORT ISSUE DATE: 08.01.2021

TEST REPORT OF FLUE GAS EMISSION*

Name of the Customer : M/s Prayagraj Power Generation Company Ltd.
 Address of the Customer : P.O.-Lohgara, Tehsil- Bara
 Distt. Prayagraj (Allahabad),
 (U.P)-212107
 Date of Monitoring : 24.12.2020
 Sample Collected by : Mr. Arvind Singh & Mr. Ashok Kumar
 Sampling Method : IS: 11255
 Instrument Used : Stack Monitoring Kit & Gas Analyzer
 Source of Emission : Boiler Emission

Details of Stack

Material of Construction : M.S.
 Stack Attached to : ESP
 Capacity : Unit-II
 Stack Height :
 i) Stack Height of Platform Level (m) : 80.0
 ii) Stack Height of Ground Level (m) : 275.0
 Stack Top : Circular
 Inside Diameter of Stack at sampling port (m) : 7.40
 Cross Sectional Area of Duct/ Stack (m²) : 42.98
 Ambient Temp. (°C) : 23.20
 Stack Gas Temp. (°C) : 118.0
 Exit Velocity of Gas (m/sec.) : 24.25
 Gas Volume qty. (Nm³/sec.) : 751.25
 Type of Fuel : Coal
 Avg. Quantity of Fuel Consumption (Tons/hr.) : 276.0
 Capacity (MW) : 660.0
 Avg. Load of Sampling Time (MW) : 605.0
 Moisture (%) : 2.96

Sl. No.	Tests Conducted	Method	Pollutant Concentration	Limit as per CPCB
1.	Particulate Matter (PM) In mg/Nm ³ (6% O ₂ Correction)	IS:11255 (Part-1)	43.6	50.0
2.	Sulphur Dioxide (SO ₂) In mg/Nm ³ (6% O ₂ Correction)	IS:11255 (Part-2)	490.5	200
3.	Nitrogen Oxides (NO _x) In mg/Nm ³ (6% O ₂ Correction)	IS:11255 (Part-7)	276.5	450
4.	Oxygen (O ₂) %	By Fuel Gas Analyzer	8.95	-
5.	Carbon Dioxide (CO ₂) %	By Fuel Gas Analyzer	8.4	-
6.	Mercury (Hg) (mg/Nm ³)	AAS/ICP	<0.01	-

*The results are related only to tested item.

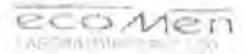
Note-Detection Range for Mercury: 0.01 to 1.0 (mg/Nm³)

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

FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack-1/12/21

TEST REPORT ISSUE DATE: 08.01.2021

TEST REPORT OF FLUE GAS EMISSION*

Name of the Customer : M/s Prayagraj Power Generation Company Ltd.
 Address of the Customer : P.O.-Lohgara, Tehsil- Bara
 Distt. Prayagraj (Allahabad), (U.P)-212107
 Date of Monitoring : 24.12.2020
 Sample Collected by : Mr. Arvind Singh & Mr. Ashok Kumar
 Sampling Method : IS: 11255
 Instrument Used : Stack Monitoring Kit & Gas Analyzer
 Source of Emission : Boiler Emission

Details of Stack

Material of Construction : M.S.
 Stack Attached to : ESP
 Capacity : Unit-III
 Stack Height :
 i) Stack Height of Platform Level (m) : 80.0
 ii) Stack Height of Ground Level (m) : 275.0
 Stack Top : Circular
 Inside Diameter of Stack at sampling port (m) : 7.40
 Cross Sectional Area of Duct/ Stack (m²) : 42.98
 Ambient Temp. (°C) : 24.0
 Stack Gas Temp. (°C) : 121.0
 Exit Velocity of Gas (m/sec.) : 23.65
 Flow Rate (Nm³/sec.) : 749.10
 Type of Fuel : Coal
 Avg. Quantity of Fuel Consumption (Tons/hr.) : 364.0
 Capacity (MW) : 660.0
 Avg. Load of Sampling Time (MW) : 612.0
 Moisture (%) : 2.59

Sl. No.	Tests Conducted	Method	Pollutant Concentration	Limit as per CPCB
1.	Particulate Matter (PM) In mg/Nm ³ (6% O ₂ Correction)	IS:11255 (Part-1)	34.5	30.0
2.	Sulphur Dioxide (SO ₂) In mg/Nm ³ (6% O ₂ Correction)	IS:11255 (Part-2)	563.0	100
3.	Nitrogen Oxides (NO _x) In mg/Nm ³ (6% O ₂ Correction)	IS:11255 (Part-7)	257.0	100
4.	Oxygen (O ₂) %	By Fuel Gas Analyzer	7.3	-
5.	Carbon Dioxide (CO ₂) %	By Fuel Gas Analyzer	9.65	-
6.	Mercury (Hg) (mg/Nm ³)	AAS/ICP	<0.01	-

*The results are related only to tested item.

Note-Detection Range for Mercury: 0.01 to 1.0 (mg/Nm³)

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Analyst

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Ashok Kumar
Quality Manager

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FORMAT NO. ECO/QS/FORMAT/10

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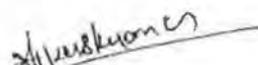
TEST REPORT ISSUE DATE: 08.01.2021

Ambient Air Quality Results*

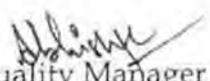
Name of the Customer : M/s Prayagraj Power Generation Company Ltd.
 Address of the Customer : P.O.-Lohgara, Tehsil- Bara
 Distt. Prayagraj (Allahabad), (U.P)-212107
 Location : Lohgara Village
 Sampling Method : IS: 5182
 Instrument Used : RDS & FDS

Sl. No.	Date of Monitoring	Concentration of Pollutant				
		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
1	03.12.2020	91.50	42.80	14.30	27.10	0.65
2	08.12.2020	81.60	34.70	12.60	22.80	0.35
3	15.12.2020	85.60	35.60	9.30	25.20	0.40
4	18.12.2020	90.90	38.60	9.50	23.80	0.55
5	22.12.2020	77.80	33.90	10.60	20.60	0.35
6	25.12.2020	57.20	33.70	11.40	22.40	0.40
7	28.12.2020	80.55	35.60	12.30	23.15	0.55
Average		80.74	36.41	11.43	23.58	0.46
Limit as per CPCB notification New Delhi, 18 th Nov, 2009. for Ambient air quality		100	60	80	80	2.0
Standard Method		IS : 5182 (Part-23) 2006	NAAQM Volume-I by CPCB	IS : 5182 (Part-2) 2001	IS : 5182 (Part-6) 2006	IS : 5182 (Part-10)

*This results are related only to tested items.


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FORMAT NO. ECO/QS/FORMAT/10

TEST REPORT NO: ECO LAB/AAQ/12/20

TEST REPORT ISSUE DATE: 08.01.2021

Ambient Air Quality Results*

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

SI. No.	Date of Monitoring	Concentration of Pollutant				
		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
1	03.12.2020	90.80	44.25	15.00	23.35	1.35
2	08.12.2020	78.30	31.75	9.10	20.75	1.10
3	15.12.2020	84.70	37.20	13.10	20.50	0.97
4	18.12.2020	80.85	31.90	12.40	17.80	0.95
5	22.12.2020	88.60	36.30	10.60	20.60	1.12
6	25.12.2020	91.75	43.45	14.00	21.20	0.89
7	28.12.2020	79.80	31.00	12.70	18.50	1.05
Average		84.97	36.55	12.41	20.39	1.06
Limit as per CPCB notification New Delhi, 18 th Nov, 2009, for Ambient air quality		100	60	80	80	2.0
Standard Method		IS : 5182 (Part-23) 2006	NAAQM Volume-I by CPCB	IS : 5182 (Part-2) 2001	IS : 5182 (Part-6) 2006	IS : 5182 (Part-10)

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Ambient Air Quality Results*

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

Sl. No.	Date of Monitoring	Concentration of Pollutant				
		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
1	03.12.2020	90.50	41.60	13.30	23.20	1.35
2	08.12.2020	94.70	45.30	10.20	24.60	1.30
3	15.12.2020	83.50	38.20	12.40	21.70	0.97
4	18.12.2020	78.20	33.40	10.70	20.90	1.10
5	22.12.2020	90.35	38.60	13.20	22.10	1.30
6	25.12.2020	80.25	35.60	12.65	23.50	1.22
7	28.12.2020	87.80	36.70	11.80	19.70	1.18
Average		86.47	38.49	12.04	22.24	1.20
Limit as per CPCB notification New Delhi, 18 th Nov, 2009. for Ambient air quality		100	60	80	80	2.0
Standard Method		IS : 5182 (Part-23) 2006	NAAQM Volume-I by CPCB	IS : 5182 (Part-2) 2001	IS : 5182 (Part-6) 2006	IS : 5182 (Part-10)

*This results are related only to tested items.

Ravi Bhargava
Analyst

Ravi Bhargava
Authorized Signatory

Ravi Bhargava
Quality Manager

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FORMAT NO. ECO/QS/FORMAT/10

TEST REPORT NO: ECO LAB/AAQ/12/20

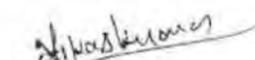
TEST REPORT ISSUE DATE: 08.01.2021

Ambient Air Quality Results*

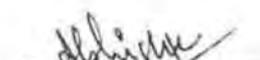
Name of the Customer : M/s Prayagraj Power Generation Company Ltd.
 Address of the Customer : P.O.-Lohgara, Tehsil- Bara
 Distt. Prayagraj (Allahabad),
 (U.P)-212107
 Location : C.H.P. Area
 Sampling Method : IS: 5182
 Instrument Used : RDS & FDS

Sl. No.	Date of Monitoring	Concentration of Pollutant				
		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
1	02.12.2020	89.80	39.65	11.50	21.10	1.40
2	07.12.2020	92.05	42.80	12.50	24.85	1.30
3	11.12.2020	96.20	47.90	16.15	21.70	1.20
4	14.12.2020	92.10	37.40	12.30	20.90	1.40
5	17.12.2020	87.50	46.20	13.20	25.60	1.20
6	21.12.2020	89.80	35.65	12.10	23.50	1.22
7	24.12.2020	96.05	42.80	13.70	21.40	1.18
8	29.12.2020	99.20	47.90	13.10	22.72	1.20
Average		92.84	42.54	13.07	22.72	1.26
Limit as per CPCB notification New Delhi, 18 th Nov, 2009, for Ambient air quality		100	60	80	80	2.0
Standard Method		IS : 5182 (Part-23) 2006	NAAQM Volume-I by CPCB	IS : 5182 (Part-2) 2001	IS : 5182 (Part-6) 2006	IS : 5182 (Part-10)

*This results are related only to tested items.


Analyst


Authorized Signatory


Quality Manager

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E-mail: ravi.bhargava@gmail.com, Website: www.ecomen.in, CIN - U74210UP1989PTC010601 GSTIN : 09AAACE60751131

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

FORMAT NO. ECO/QS/FORMAT/10

TEST REPORT NO: ECO LAB/AAQ/12/20

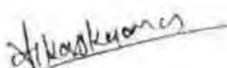
TEST REPORT ISSUE DATE: 08.01.2021

Ambient Air Quality Results*

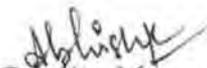
Name of the Customer : M/s Prayagraj Power Generation Company Ltd.
 Address of the Customer : P.O.-Lohgara, Tehsil- Bara
 Distt. Prayagraj (Allahabad), (U.P)-212107
 Location : I.T.I College
 Sampling Method : IS: 5182
 Instrument Used : RDS & FDS

Sl. No.	Date of Monitoring	Concentration of Pollutant				
		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
1	02.12.2020	92.30	45.35	12.60	25.80	1.45
2	07.12.2020	83.40	40.00	12.50	24.60	1.30
3	11.12.2020	91.60	46.70	13.85	21.70	1.40
4	14.12.2020	82.00	36.00	15.00	20.65	1.40
5	17.12.2020	87.70	40.90	13.20	25.60	1.30
6	21.12.2020	82.60	41.30	14.60	24.60	1.22
7	24.12.2020	90.70	48.90	13.70	21.40	1.20
8	29.12.2020	82.80	38.50	13.10	24.70	1.30
Average		86.64	45.21	13.57	23.63	1.32
Limit as per CPCB notification New Delhi, 18 th Nov, 2009. for Ambient air quality		100	60	80	80	2.0
Standard Method		IS : 5182 (Part-23) 2006	NAAQM Volume-I by CPCB	IS : 5182 (Part-2) 2001	IS : 5182 (Part-6) 2006	IS : 5182 (Part-10)

*This results are related only to tested items.


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Quality Manager

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

FORMAT NO. ECO/QS/FORMAT/10

TEST REPORT NO: ECO LAB/AAQ/12/20

TEST REPORT ISSUE DATE: 08.01.2021

Ambient Air Quality Results*

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

Sl. No.	Date of Monitoring	Concentration of Pollutant				
		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
1	02.12.2020	96.30	44.30	12.60	25.80	1.25
2	07.12.2020	90.30	38.60	14.60	24.60	1.30
3	11.12.2020	91.60	46.70	13.40	22.60	1.30
4	14.12.2020	86.90	34.60	12.30	21.60	1.40
5	17.12.2020	94.10	42.60	13.20	25.60	1.30
6	21.12.2020	82.60	41.30	14.60	24.60	1.22
7	24.12.2020	87.20	36.20	13.70	20.30	1.30
8	29.12.2020	94.85	37.60	13.10	24.70	1.25
Average		90.48	40.24	13.44	23.73	1.29
Limit as per CPCB notification New Delhi, 18 th Nov, 2009, for Ambient air quality		100	60	80	80	2.0
Standard Method		IS : 5182 (Part-23) 2006	NAAQM Volume-I by CPCB	IS : 5182 (Part-2) 2001	IS : 5182 (Part-6) 2006	IS : 5182 (Part-10)

*This results are related only to tested items.

Ravi Bhargava
Analyst

[Signature]
Authorized Signatory

[Signature]
Quality Manager

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Annexure-III

Fly ash utilisation status

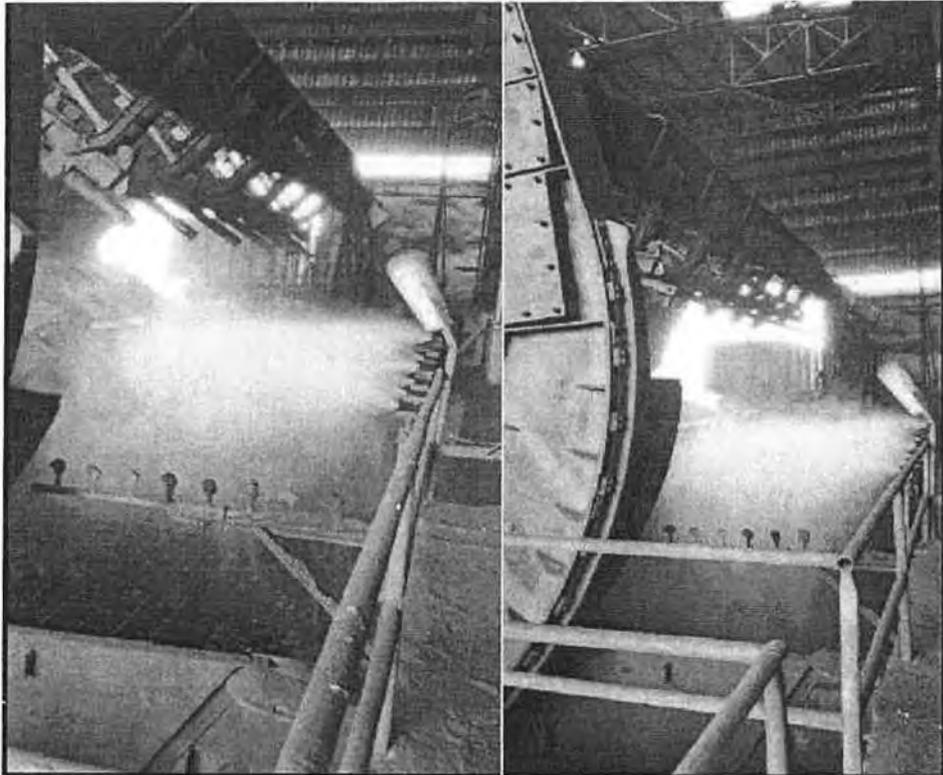
- For the period April'20 to Dec'20 the fly ash utilization status is as below

Period	Fly Ash Generation (MT)	Fly Ash Utilisation (MT)		
	(Fly + Bottom)	Cement	Brick	Low Lying Area Reclamation within plant premises
April 20 - Dec 20	1494644	985722	97	202369

- Further during next financial year, we will utilize fly ash in- Cement, brick and blocks, low lying area reclamation, backfilling of abandoned mine void.

Annexure IV

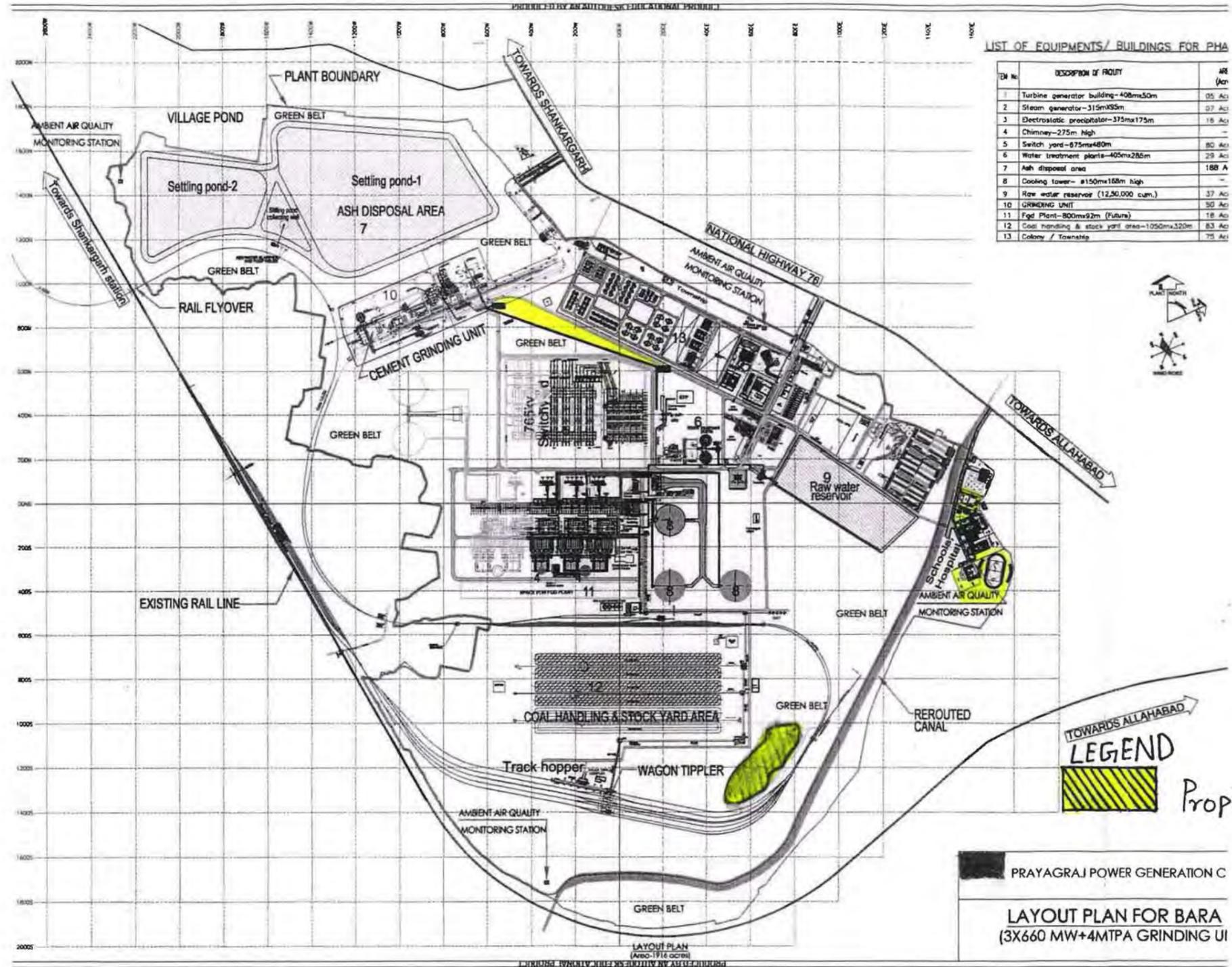
Photographs of dust suppression system installed.



Wagon tippler area

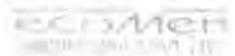


Coal yard area



Name of the Power Utility: PRAYAGRAJ POWER GENERATION CO.LTD				Name of the Thermal Power Plant (Capacity in MW) - 1980 MW						
Details of ash utilization during the Quarter Oct-Dec 2020										
Sl. No.	Name of Ash Disposal Area	Ash disposal area in Hectare	Design Life of Ash disposal area	Pond Ash Availability in MT (up to 01.10.2020)	Ash Generated in ESP Fly Ash	Bottom Ash	Ash Utilized in MT during			Pond Ash Availability in MT (up to 01.01.2021)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	Dry ESP Fly Ash	Bottom Ash	Pond Ash	(11)
1	PRAYAGRAJ POWER GENERATION COMPANY LTD	74.5	Temporary storage	2191425	469477	117369	444011.1	0.0	64875	2269384
ASH UTILIZATION DETAILS										
Sl. No.	Area of Utilization	For the Quarter (Oct- Dec '20) Ash utilized in MT			Cummulative for Year (FY 20-21)					
		Dry ESP Fly Ash	Bottom Ash	Pond Ash	Dry ESP Fly Ash	Bottom Ash	Pond Ash			
1	Bricks/Blocks/Tiles industries									
1A	Dry ESP Fly Ash Issued to Bricks/Blocks/Tiles industries (Outside)	0.00	0	0				0		0
1B	Pond Ash Issued to Bricks/Blocks/Tiles industries (Outside)	0	0	0			0	0		0
1C	Fly Ash issued for Bricks/Blocks/Tiles in Own Plant	0	0	0			0	0		0
	a) Dry ESP Fly Ash issued	97	0	0			97	0		0
	b) Pond ash issued	0	0	0			0	0		0
	Sub-Total	0	0	0			0	0		0
	Total fly ash Issued to Bricks/Block/Tile Industries (1A+1B+1C)	97.00	0	0			97	0		0
2	Cement Industries									
2A	Dry ESP Fly Ash Issued to Cement Industries									
	a) Cement	442117.30					985722			
	b) RMC	0	0	0			0	0		0
	c) Asbestos	0	0	0			0	0		0
	Sub-Total	0	0	0			0	0		0
2B	Pond Ash Issued to Cement Industries	0	0	0			0	0		0
	Total Fly Ash Issued to Cement industries (2A+2B)	442117.30	0	0			985722	0		0
3	Roads, Fly over /Rail Embankment									
3A	Dry ESP Fly Ash Issued for Road construction (Outside)	0	0	0			0	0		0
3B	Pond Ash Issued for Road construction (Outside)	0	0	0			0	0		0
	Total Fly Ash Issued for Road Construction (3A+3B)	0	0	0			0	0		0
4	Total Fly Ash issued for Part replacement of cement in concrete	0	0	0			0	0		0
5	Total Fly ash supplied to Hydro power sector	0	0	0			0	0		0
6	Total Fly ash used for Ash Dyke raising	0	0	0			0	0		0
7	Landfill/Reclamation of low lying area									
	a) Power Utility Own Land	1796.75	0	64875			22994.4	0.00		179375
	b) Outside Land	0	0	0			0	0		0
	Total Fly Ash used for Landfill/Reclamation of low lying area	1796.75	0	64875			22994	0		179375
8	Mine filling									
	a) Open cast mine	0.00	0.00	0			0	0		0.00
	b) U.G.Mine	0.00	0	0			0.0	0		0
	Total Fly Ash used for Mine filling	0	0	0						
9	Agriculture / waste land development									
9A	Dry ESP Fly Ash Issued for Agriculture / waste land development	0	0	0			0	0		0
9B	Pond Ash Issued for Agriculture / waste land development	0	0	0			0	0		0
	Total Fly Ash Issued to Agriculture/ waste land development (9A+9B)	0	0	0			0	0		0
10	Others									
	a) CLSM	0	0	0			0	0		0
	b) Cenospheres	0	0	0			0	0		0
	c) Bottom ash cover	0	0	0			0	0		0
	d) Any other	0	0	0			0	0		0
	Total Fly Ash Issued for other purpose	0	0	0			0	0		0
	Grand Total	444011.1	0.0	64875.0			1008814	0		179375

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E-mail: ravi.bhargava@gmail.com, Website: www.ecomen.in. CIN - U74210UP1989PTC010601, GSTIN - 09AAACEF028B124

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

FORMAT NO. ECO/QS/FORMAT/13

TEST REPORT NO: ECO LAB/WN/12/21

TEST REPORT ISSUE DATE: 08.01.2021

TEST REPORT OF WORK AREA NOISE MONITORING**FACTORY ACT 1948****Day Time**

Name of the Customer : M/s Prayagraj Power Generation Company Ltd.
 Address of the Customer : P.O.-Lohgara, Tehsil- Bara
 Distt. Prayagraj (Allahabad), (U.P)-212107
 Date of Sampling : November 25th, 2020
 Sample Collected By : Mr. Rahul Kumar
 Location : Turbine Floor
 Sampling Time : 11:50 Hrs.
 Number of Observation : 30.0
 Instrument Description : Noise Meter HTC
 Test Method : IS: 4412, Part-I & 2, 1991

Noise Level in dB(A)		
Max.	Min.	Leq Value
74.5	63.2	70.5

STANDARD**Noise (Work Area) - Factory Act 1948**

Area Code	Category of area	Limit in dB (A) Leq
A	Industrial Area	85

Note:

1. Day time is reckoned in between 6:00 AM and 10:00 PM.
2. Night time is reckoned in between 10:00 PM and 6:00 AM
3. Silence zone is defined as area up to 100m around such premises as hospitals, Educational institutions & courts. The silence zones are to be declared by a competent authority.
4. Mixed categories of areas should be declared as one of the four above-mentioned Categories by the competent authority and the corresponding standard shall apply.

Ravi Bhargava
Analyst

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Quality Manager

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E-mail: ravi.bhargava@gmail.com, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1Z1

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

FORMAT NO. ECO/QS/FORMAT/07

TEST REPORT NO: ECO LAB/1298/WW/12/20

TEST REPORT ISSUE DATE: 08.01.2021

TEST REPORT OF WASTE WATER*

Name of the Customer : M/s Prayagraj Power Generation Company Ltd.
 Address of the Customer : P.O.-Lohgara, Tehsil- Bara
 Distt. Prayagraj (Allahabad), (U.P)-212107
 Sampling Method : APHA
 Sample Collected by : Mr. Ashok
 Sample Quality : As per requirement.
 Date of Sampling : 24.12.2020 to 26.12.2020
 Date of Sample Receiving : 30.12.2020
 Packing of Sample : As per requirement.
 Date of Analysis : 30.12.2020 to 07.01.2021
 Source of Sample : STP Outlet
 Sample ID Code : ELW-12913

Sl. No.	TESTS	PROTOCOL	RESULT	Limits of Detection	G.S.R 422(E)
					Desirable
1.	pH	APHA, 23rd Ed. 2017, (4500 H ⁺ A+B)	7.42	2-12	5.5-9.0
2.	Total Suspended Solid as TSS (mg/l)	APHA, 23rd Ed. 2017, (2540D)	42.3	5-5000	100.0
3.	Biochemical Oxygen Demand as BOD (mg/l) 3 days as 27°C	APHA, 23rd Ed. 2017 (5210A+ B)	22.0	5-10000	30.0
4.	Chemical Oxygen Demand as COD (mg/l)	APHA, 23rd Ed. 2017, (5220A+ B)	112.0	5-50000	250.0
5.	Oil & Grease as O & G (mg/l)	APHA, 23rd Ed. 2017, 5520 (A+D)	BDL	5-600	10.0

*The results are related only to item tested.

Archana
AnalystReena
Authorized SignatoryReena
Quality Manager

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FORMAT NO. ECO/QS/FORMAT/07

TEST REPORT NO: ECO LAB/1298/WW/12/20

TEST REPORT ISSUE DATE: 08.01.2021

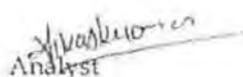
TEST REPORT OF WASTE WATER*

Name of the Customer : M/s Prayagraj Power Generation Company Ltd.
 Address of the Customer : P.O.-Lohgara, Tehsil- Bara
 Distt. Prayagraj (Allahabad), (U.P)-212107

Sampling Method : APHA
 Sample Collected by : Mr. Ashok
 Sample Quality : As per requirement.
 Date of Sampling : 24.12.2020 to 26.12.2020
 Date of Sample Receiving : 30.12.2020
 Packing of Sample : As per requirement.
 Date of Analysis : 30.12.2020 to 07.01.2021
 Source of Sample : ETP Outlet
 Sample ID Code : ELW-12911

Sl. No.	TESTS	PROTOCOL	RESULT	Limits of Detection	G.S.R 422(E)
					Desirable
1.	pH	APHA, 23rd Ed. 2017, (4500 H* A+B)	7.38	2-12	5.5-9.0
2.	Total Suspended Solid as TSS (mg/l)	APHA, 23rd Ed. 2017, (2540D)	25.3	5-5000	100.0
3.	Biochemical Oxygen Demand as BOD (mg/l) 3 days as 27°C	APHA, 23rd Ed. 2017 (5210A+ B)	10.0	5-10000	30.0
4.	Chemical Oxygen Demand as COD (mg/l)	APHA, 23rd Ed. 2017, (5220A+ B)	78.0	5-50000	250.0
5.	Oil & Grease as O & G (mg/l)	APHA, 23rd Ed. 2017, 5520 (A+D)	BDL	5-600	10.0

*The results are related only to item tested.



Analyst



Authorized Signatory



Quality Manager

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Ref: PPGCL/ENV/FY24/021

Date:29.04.2023

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

Subject: Quarterly Fly Ash Utilisation report Jan' 23 to Mar' 23.

Ref- CTO Ref NO 102011 Air and 102087 Water issued on 29.12.2020 specific condition No. 7 & 9 respectively.

Dear Sir,

With reference to the above mentioned subject and condition of CTO, Please find enclosed Quarterly fly ash utilization report for the period Jan' 23 to Mar' 23.

This is for your kind information and record please.

Sincerely,

For Prayagraj Power Generation Company Limited



S H Pandey

Chief O&M Services



Enclosures – Quarterly fly ash utilization report (total page enclosed-1)

Cc: The Regional Officer

U.P Pollution Control Board, Prayagraj

Prayagraj Power Generation Company Limited

Registered Office : Shatabdi Bhawan, B 12 & 13, Sector 4, Gautam Budh Nagar, Noida, Uttar Pradesh - 201301
Phone: + 91-120-6102000/6102208 CIN: U40101UP2007PLC032835

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

Name of the Power Utility: PRAYAGRAJ POWER GENERATION CO.LTD					Name of the Thermal Power Plant (Capacity in MW) - 1980 MW					
Details of ash utilization during the Quarter Jan 2023 - Mar 2023										
Sl. No.	Name of Ash Disposal Area	Ash disposal area in Hectare	Design Life of Ash disposal area	Pond Ash Availability in MT (up to 01.01.2023)	Ash Generated in		Ash Utilized in MT during			Pond Ash Availability in MT (up to 31.03.2023)
(1)	(2)	(3)	(4)	(5)	ESP Fly Ash	Bottom Ash	Dry ESP Fly Ash	Bottom Ash	Pond Ash	(11)
1	PRAYAGRAJ POWER GENERATION COMPANY LTD	76.11	Temporary storage	3005902	470913	117728	478421.3	0.0	529065	2587057
ASH UTILIZATION DETAILS										
Sl. No.	Area of Utilization	For the Quarter (Jan 23 - Mar 23) Ash utilized in MT			Cummulative for Year (FY 22-23)					
		Dry ESP Fly Ash	Bottom Ash	Pond Ash	Dry ESP Fly Ash	Bottom Ash	Pond Ash			
1	Bricks/Blocks/Tiles industries									
1A	Dry ESP Fly Ash Issued to Bricks/Blocks/Tiles industries (Outside)	0.00	0	0				0		0
1B	Pond Ash Issued to Bricks/Blocks/Tiles industries (Outside)	0	0	0			0	0		0
1C	Fly Ash issued for Bricks/Blocks/Tiles in Own Plant	0	0	0			0	0		0
	a) Dry ESP Fly Ash issued	0.00	0	0			255.14	0		0
	b) Pond ash issued	0	0	0			0	0		0
	Sub-Total	0	0	0			255.14	0		0
	Total fly ash issued to Bricks/Block/Tile Industries (1A+1B+1C)	0.00	0	0			255.14	0		0
2	Cement Industries									
2A	Dry ESP Fly Ash Issued to Cement Industries									
	a) Cement	478421.26					1526502.38			
	b) RMC	0	0	0			0	0		0
	c) Asbestos	0	0	0			0	0		0
	Sub-Total	0	0	0			0	0		0
2B	Pond Ash Issued to Cement Industries	0	0	0			0	0		0
	Total Fly Ash Issued to Cement Industries (2A+2B)	478421.26	0	0			1526502.38	0		0
3	Roads, Fly over /Rail Embankment									
3A	Dry ESP Fly Ash Issued for Road construction (Outside)	0	0	0			0	0		0
3B	Pond Ash Issued for Road construction (Outside)	0	0	28874.5			0	0		76806.08
	Total Fly Ash Issued for Road Construction (3A+3B)	0	0	28874.5			0	0		76806
4	Total Fly Ash issued for Part replacement of cement in concrete	0	0	0			0	0		0
5	Total Fly ash supplied to Hydro power sector	0	0	0			0	0		0
6	Total Fly ash used for Ash Dyke raising	0	0	0			0	0		0
7	Landfill/Reclamation of low lying area									
	a) Power Utility Own Land	0	0	278173.6			0	0		222017.3
	b)Outside Land	0	0	222017.3			0	0		469998.2
	Total Fly Ash used for Landfill/Reclamation of low lying area	0	0	500190.9			0	0		692015.5
8	Mine filling									
	a) Open cast mine	0	0	0			0	0		0
	b) U.G.Mine	0	0	0			0.0	0		0
	Total Fly Ash used for Mine filling	0	0	0			0	0		0
9	Agriculture / waste land development									
9A	Dry ESP Fly Ash Issued for Agriculture / waste land development	0	0	0			0	0		0
9B	Pond Ash Issued forAgriculture / waste land development	0	0	0			0	0		0
	Total Fly Ash Issued to Agriculture/ waste land development (9A+9B)	0	0	0			0	0		0
10	Others									
	a) CLSM	0	0	0			0	0		0
	b) Cenospheres	0	0	0			0	0		0
	c) Bottom ash cover	0	0	0			0	0		0
	d) Any other	0	0	0			0	0		0
	Total Fly Ash Issued for other purpose	0	0	0			0	0		0
	Grand Total	478421	0.0	529065.4			1526758	0		768822

PPGCL/ENV/FY23/326

Date:23.01.2023

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

Sub: Compliance of Consent to Operate condition.
Ref: CTO Water 102087 dated 29.12.2020 specific condition No 10.

Dear Sir,

With reference to the above-mentioned subject and referred condition, please find enclosed here with the Post monsoon hydrology report for our PPGCL site.

This is for your kind information and record please.

Thanking You,

Yours Faithfully,

For Prayagraj Power Generation Company Limited


S H Pandey

Chief O&M Services

Encl: Post monsoon hydrology report

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: U40101UP2007SGC032835

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

TRUE COPY

**HYDROLOGICAL SURVEY REPORT IN THE
SURROUNDING AREA OF ASH POND
OF
PRAYAGRAJ POWER GENERATION
COMPANY LIMITED**

**PRAYAGRAJ POWER GENERATION
COMPANY LIMITED**

**Village– Khan Semra, Tehsil– Bara
U.P. 212107**

POST– MONSOON

Year: 2022-23

Prepared By



**Mitra S.K. Private Limited
Above Punjab National Bank
Maihar Road, NH-07**

Kuthla, Katni-483501 (M.P)

E-mail: ajayksingh@mitrask.com

CONTENT

1 INTRODUCTION	2
2 CLIMATE CONDITION	4
3 GEOLOGY	6
4 HYDROLOGY:	8
4.1 Physiography of buffer zone	10
4.1.1 Watersheds in the buffer zone	12
4.2 Meteorological Data	15
4.2.1 Climate	15
4.2.2 Temperature	15
4.2.3 Rainfall	15
4.2.4 Humidity	16
4.2.5 Winds	16
4.2.6 Cloudiness:	17
5 PRIMARY DATA	18
5.1 WATER LEVEL	18
5.1.1 Core Area (within Plant)	18
5.1.2 Buffer Zone (10 Km Radius)	19
5.2 WATER QUALITY	21
5.2.1 Core Zone	21
5.2.2 Buffer Zone	21
6 RESULT AND DISCUSSION:	22
6.1 Water Level	22
6.1.1 Core Area (within Plant)	22
6.1.2 Buffer Zone (10 Km Radius)	22
6.2 WATER QUALITY	23
6.2.1 CORE ZONE	23
6.2.2 BUFFER ZONE	23
7 CONCLUSION	25

1 INTRODUCTION

Prayagraj Power Generation Company Limited has set up a 1980 MW (3x660) thermal power plant near village Lohgara, Tehsil Bara, District Prayagraj, Uttar Pradesh. The thermal power plant is located at the National Highway No.35 on Prayagraj – Banda section. Nearest railway station is Lohgara around 3 kms from site, on Mumbai – Howrah railway route which passes through Prayagraj. The district headquarter Prayagraj is around 34 kms in NE direction from the plant site.

PPGCL awarded the assignment to M/s Mitra S.K Pvt. Ltd, Katni Madhya Pradesh to carry out Hydrological studies on six monthly bases with an objective to assess the impact on ground water especially around the ash dykes. M/s Mitra S.K. Pvt. Ltd has conducted the survey on water level in 10Km radius area and analyses of the water quality.

Location:

The ash pond of PPGCL is located in an area of approx. 74.5 Hectare. The latitude and longitude are 25°11'42.5" N 81°38'28.5" E and 25°11'11.1"N 81°38'15.2"E as shown in Exhibit V.

Silent features of PPGCL

Capacity	1980 MW (3x660 MW) coal based super-critical thermal power project
COD	Unit-I: February 2016 Unit-II: September 2016 Unit-III: May 2017
Location	Tehsil Bara, Distt. Allahabad, Uttar Pradesh ~ 4 km from Shankargarh railway station (North Central Railway) ~ 50 km from Allahabad Airport

Prayagraj Power Generation Company Limited -- 3X660 MW

The district of Allahabad is located between $24^{\circ} 47' N$ and $25^{\circ} 47' N$ latitudes and between $81^{\circ} 19'E$ and $82^{\circ} 21'E$ longitudes. It covers an area of 5246 km^2 . This district lies in the southern part of the state in the Gangetic plain and adjoining Vindhyan Plateau of India. Allahabad district is surrounded by district Bhadohi and Mirzapur in the East, Kaushambi and Banda in the west, Pratapgarh and Jaunpur in the North and Banda and Madhya Pradesh are in the south. River Ganga and Yamuna flow through the district. The district comprises of eight tahsils, namely Sadar, Soraon, Phulpur, Handia, Bara, Karchana, Koraon and Meja. Tahsil Meja is biggest one according to the area while as per population Tehsil Sadar is the biggest Tehsil of the district. It has 20 development Blocks, 2715 villages and 10 towns.

2 CLIMATE CONDITION

The climate of Allahabad district is characterized by a long and hot summer, a fairly pleasant monsoon and cold seasons. The winter usually extends from mid-November to February and is followed by the summer which continues till about the middle of June. The south-west monsoon then ushers in the rainy season which lasts till the end of September. October and the first half of November constitute the post-monsoon season. The rainfall of Allahabad district generally decreases from the south-east to the north-west. About 88 percent of the annual rainfall is received during the monsoon season. July and August being the months of maximum rainfall. The normal rainfall in the district is 975.4 mm. (38.40") but the variation from year to year is appreciable on an average there are about 48 rainy days in a year, the variation in different parts of the district being negligible. From about the middle of November, the temperatures begin to fall rapidly and in January (the coldest month) the mean daily maximum is 23.7°C (74.7°F). In association with cold waves in the wake of western disturbance passing eastwards, the minimum temperature may go down to a degree or two above the freezing point of water and slight frosts may occur. Temperatures rise rapidly after February. The heat in the summer season—particularly in May and the early part of June is intense. May usually being the hottest month of the year with the mean daily maximum temperature at 41.8°C (107.2°F) and the mean daily minimum at 26.8°C (80.2°F). The hot dry and often dusty westerly winds (locally known as loo) make the heat more intense during the daytime especially in the trans-Yamuna tract due to the radiation from the stony outcrops. The climate is marked by high relative humidity i.e. 70 to 80 percent during monsoon and progressive decrease in humidity (during the summers humidity is very low i.e. 15 to 20 percent only). During the monsoon season the skies are heavily clouded but during the rest of the year they are clear or lightly clouded except for short spells of a day or two during the cold season when in association with the passing western disturbances, they become cloudy. Winds are generally light throughout the year with some increase in force in the summer (particularly in

the afternoons) and during the south west monsoon season. Topography & Terrain The district may be divided in the three distinct Physical parts. The trans-Ganga or the Gangapar Plain, the doab and trans-Yamuna or the Yamunapar tract which are formed by the Ganga and its tributary, the Yamuna, the latter joining the former at Allahabad, the confluence being known as Sangam. Trans Ganga tract comprises poor sandy soil (full of Kankar) with stretches of sodic lands popularly known as 'USAR'. In tehsil Handia, the water table is high and the water in excess, collecting in numerous lakes which form the most noticeable feature of the area, especially in the northern part. The Trans Yamuna tract forms a part of Bundelkhand region. The district is mainly characterized with Ganga, Yamuna alluvial plain and Vindhyan Plateau. G.S.I. (2001) has identified the following geomorphic features. 1. Active Flood Plain: It is quite localized and confined only to the river system. 2. Older Alluvial Plain: It is characterized by depositional and erosional terraces found in patches along the active plain. 3. Rocky Surface (Denudational hills): These are prominent in trans Yamuna area formed mainly of quartzitic nature.

3 GEOLOGY

Geologically the district is characterized by Quaternary alluvium and Vindhyan Plateau. The age of these formations range from Proterozoic to Recent. Quartzite of Kaimur group forms the basement in the area which is unconformably overlain by Quaternary alluvium

Stratigraphic Sequence in Allahabad district

Group	Formation	Lithology	Age	Thickness (m)
Quaternary	Newer Alluvium	Clay, silt and sand	Holocene	130.50
	Older Alluvium	Polycyclic sequence of silt, clay and sand with kankar	Early to late Pleistocene	--

-----**UNCONFORMITY**-----

Vindhyan Supergroup	Rewa Group	Shale and sandstone	Meso to Neoproterozoic	15 76
	Kaimur Group	Quartzite	Meso to Neoproterozoic	18 01

Sub-Surface Geology Subsurface geology of the district has been inferred on the basis of borehole data. It is observed that surface lithological behavior is quite different in Trans Ganga and Trans Yamuna area. The alluvium as classified Younger and Older one. Older alluvium is again classified into two subdivision i) Banda Older alluvium ii) Varanasi Alluvium. Sub-surface geological characters of hard rock area is quite distinct than Trans Ganga area.

Hydrogeological Set-up Exploratory drilling data of CGWB and state tubewell department show that there are three distinct granular zones i) shallow aquifers ranging from 20 to 50 mbgl ii) middle aquifer ranging from 70 to 120 mbgl and deeper aquifer lies below 150 down to depth 300 mbgl. The extension of individual zones is variable over the district.

Depth to Water Level Ground water is mainly controlled by drainage, topography and lithological behavior, it occurs underground water condition at shallow depths and under confined condition at deeper depths. Depth to water in pre-monsoon ranges between 3.0 to 15.0 mbgl and average water level is 6.0 to 7.0 mbgl in Trans Ganga area. Post-monsoon water level varies between 1.45 to 13.00 mbgl in Trans Ganga area. Water level varies 5.00 to 6.00 mbgl in Trans Yamuna area.

Long Term Water Level Trend Data of all NHS falling in the district were analyzed from 1995 to 2005, which clearly show that the long-term fluctuation ranges between 0.79 to 3.50 m corroborating a higher base flow of ground water in Trans Yamuna area. The yield of the wells varies from 950 to 3200lpm in alluvial area of Trans Ganga and it varies from 50 lpm to 1200 lpm in hard rock (Vindhyan) areas.

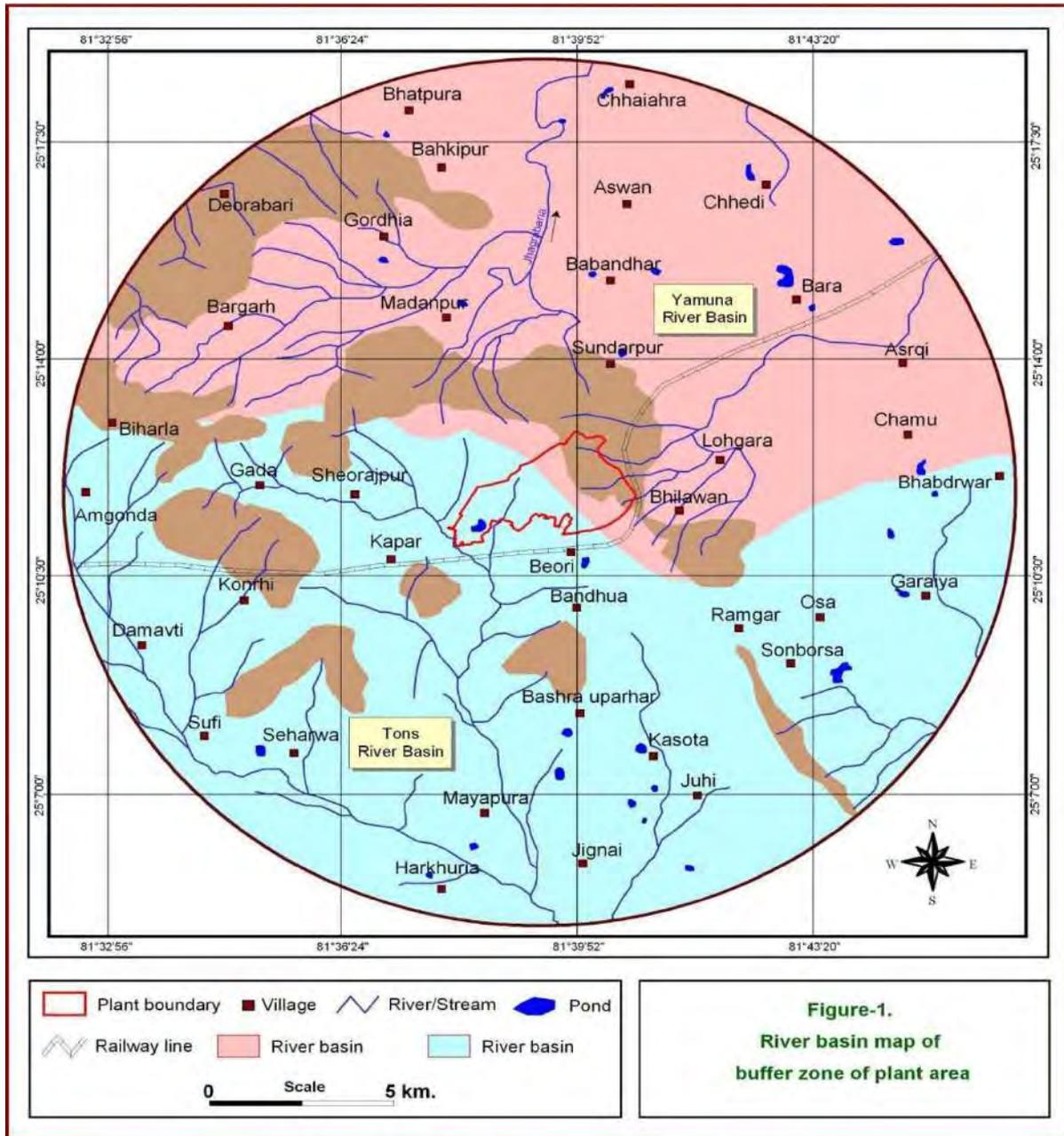
Physiography

Physiographically, Prayagraj is characterized with Ganga and Yamuna alluvial plain and Vindhya Plateau. The plain is devoid of rock and made up entirely of alluvium of two types, the newer alluvium being the flood plain of the Ganga and Yamuna. Older alluvium is characterized by more amount of clay within same depth as compared with newer alluvium. Active flood plain is quite localized and confined to river system only.

The channel point and lateral bars are formed in this active flood plain area. Older alluvial plain is characterized by depositional terraces and erosion terraces which are found in patches along active flood plain. It is more prominent along Ganga than Yamuna. Erosional terraces are not observed along river Belan and Tons but observed quite significantly along river Ganga and Yamuna. Denudation hills are mainly of quartzitic in nature along with sandstone. Master slope of Trans Ganga which is characterized with alluvial deposits is towards east or south east. The highest altitude of the land surface is 134 m. above mean sea level while lowest being 121 m above mean sea level.

4 HYDROLOGY:

Both core and buffer zones (10 km radius area from plant boundary) fall in the two river basins, i.e. Yamuna and Tons (or Tamas) basins (**Exhibit-I**).



All the streams (passing through the plant boundary) have been re-routed outside the plant during plant construction

Exhibit I: Drainage Layout Map

Yamuna river basin

Eastern part of the plant area (4.37 km²) and northern part of the buffer zone area (244.49 km²) lies in Yamuna river basin. Yamuna is the

largest tributary of the Ganga. Originating from the Yamunotri Glacier at a height of 6,387 metres on the south western slopes of Banderpooch peaks in the Lower Himalayas in Uttarakhand, it travels a total length of 1,376 km and has a catchment area of 3,66,223 km² (40.2% of the entire Ganga river basin) before merging with the Ganga at Triveni Sangam, Allahabad, the site for the Kumbha Mela every twelve years.

It crosses several states, Uttarakhand, Haryana and Uttar Pradesh, passing by Himachal Pradesh and later Delhi, and meets several of its tributaries on the way, including Tons, its largest and longest tributary in Uttarakhand, Chambal, which has its own large basin, followed by Sindh, Betwa, and Ken. Most importantly it creates the highly fertile alluvial, Yamuna-Ganges Doab region between itself and the Ganga in the Indo-Gangetic plain. Nearly 57 million people depend on the Yamuna waters.

Tamas river basin

Western part of the plant area (4.31 km²) and southern part of the buffer zone area (283.58 km²) lies in Tons river basin. The Tons River (also known as the Tamas River) is a tributary of the Ganga flowing through the Madhya Pradesh and Uttar Pradesh.

A ton is an important river of the area draining it into the Bay of the Bengal through the river Ganga.

The Tons rises in a tank at Tamakund in the Kaimur Range at an elevation of 610 metres. It flows through the fertile districts of Satna and Rewa. At the edge of the Purwa plateau, the Tons and its tributaries forms a number of waterfalls. The river receives the Belan in UP and joins the Ganga at Sirsa, about 311 km downstream of the confluence of the Ganges and Yamuna. The total length of the river is 264 km. It has a total catchment area of 16,860 km².

The Tons River while descending through the Rewa plateau and draining northwards makes a vertical falls of 70 m known as Purwa Falls. Some of the more notable waterfalls on the tributaries of the Tons river, as they come down

from the Rewa plateau, are: Chachai Falls (127m) on the Bihad river, the Keoti Falls (98m) on the Mahana river and Odda Falls (145m) on the Odda river.

4.1 Physiography of buffer zone

The buffer area is mostly plain to undulating. The elevations of the area above mean sea level (MSL) vary from 89 mRL in the east to 181 mRL in the west **(Exhibit-2)**. Major drainage pattern of the buffer zone is towards north eastern and southern sides; and has a dendritic drainage pattern. Due to moderate rainfall and loamy soil, the drainage intensity is moderate.

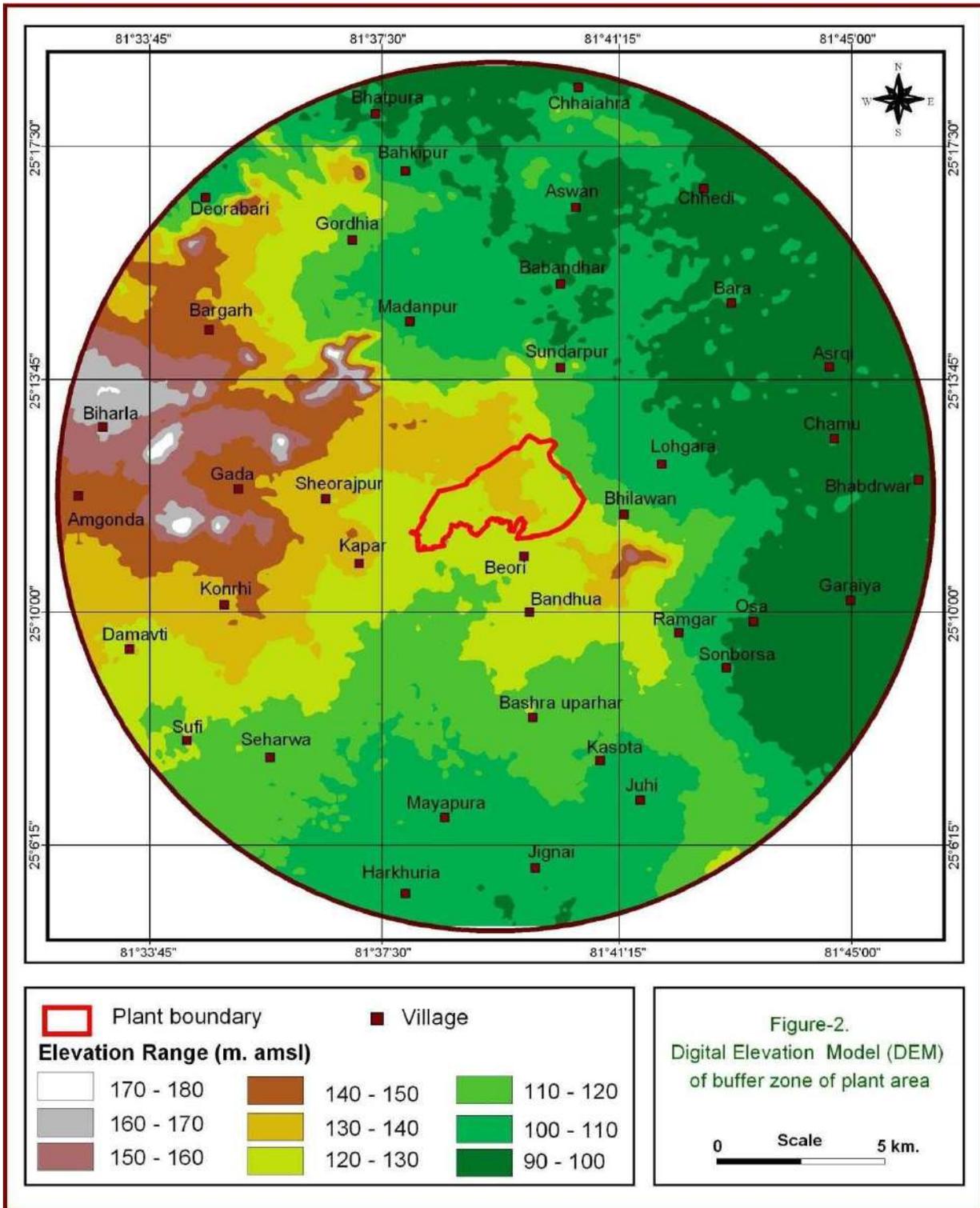


Exhibit II: Digital Elevation Model (DEM)

4.1.1 Watersheds in the buffer zone

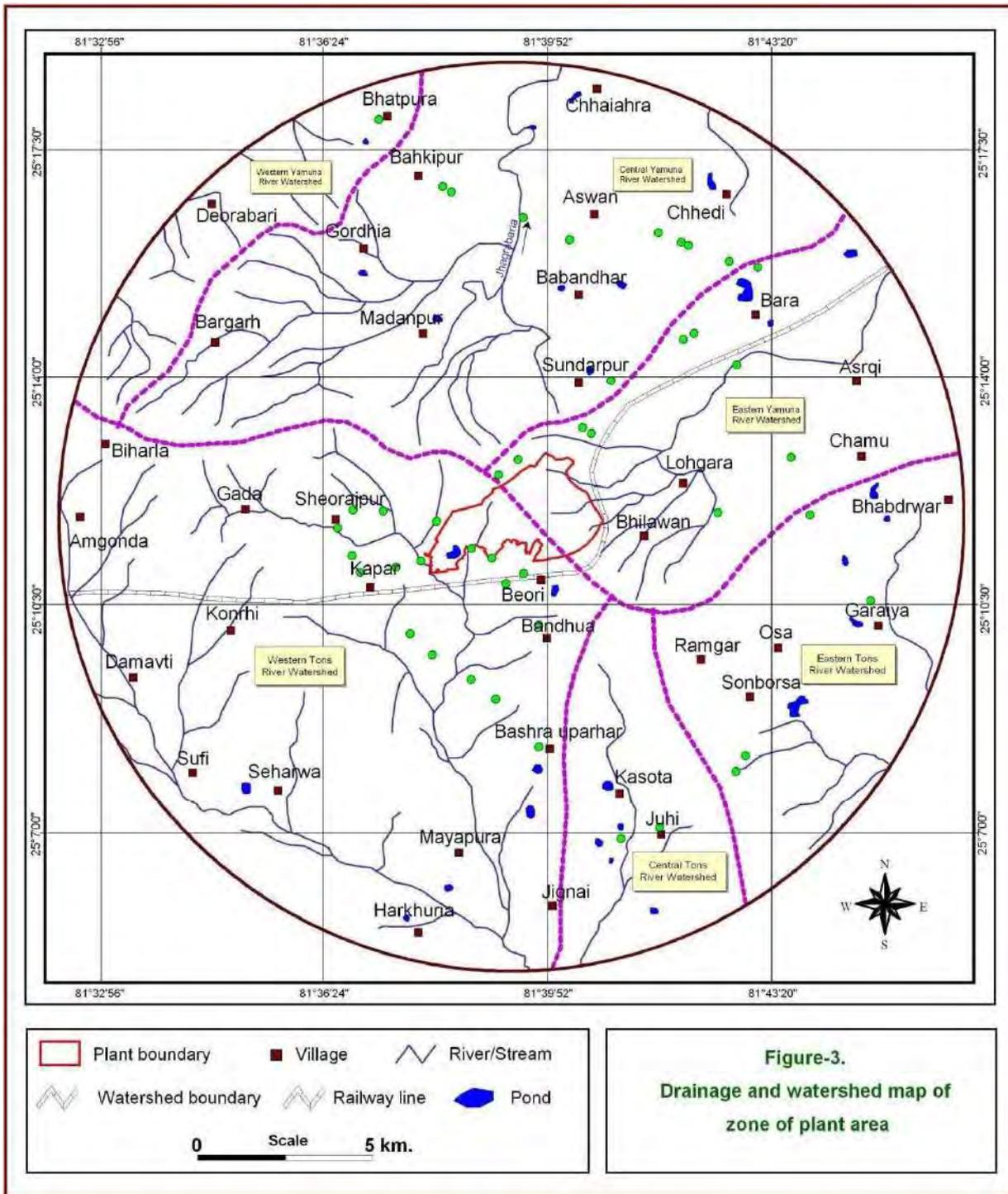
The buffer zone (10 km radius area from plant boundary) is covered by six watersheds. Three watersheds (western, central and eastern) of Yamuna river basin located in the northern part of the buffer zone while other three watersheds (western, central and eastern) of Tons river basin occurring in the southern part of the buffer zone (**Exhibit-III**).

Western Yamuna river watershed

Western Yamuna river watershed lies in the north western part of the buffer zone. Western Yamuna river watershed within buffer zone covers an area of 29.91km² with gradient of 7.33-9.25 m/km. The catchment yield of Western Yamuna river watershed is estimated as 23.14 million m³ taking 50% dependability of rain, which amounts to 1406.4 mm. Average value of Strange's Run off percentage of the buffer zone area is calculated from Strange's monsoon rainfall-runoff curves considering the catchment area as Good and the Runoff % for catchments is found as 55%.

Central Yamuna river watershed

Central Yamuna river watershed lies in the north central part of the buffer zone. Central Yamuna river watershed within buffer zone covers an area of 135.10 km² with gradient of 3.50-3.65 m/km. The catchment yield of Central Yamuna river watershed is estimated as 104.50 million m³ taking 50% dependability of rain, which amounts to 1406.4 mm.



All the streams (passing through the plant boundary) have been re-routed outside the plant during plant construction

Exhibit III: Drainage and Watershed map

Eastern Yamuna river watershed

Eastern Yamuna river watershed lies in the north eastern part of the buffer zone. Eastern Yamuna river watershed within buffer zone covers an area of 79.48 km² with gradient of 2.45-2.63 m/km. The catchment yield of Eastern Yamuna river watershed is estimated as 61.48 million m³ taking 50% dependability of rain, which amounts to 1406.4 mm.

Western Tons river watershed

Western Tons river watershed lies in the south western part of the buffer zone. Western Tons river watershed within the buffer zone covers an area of 181.65 km² with gradient of 2.33-2.62 m/km. The catchment yield of Western Tons river watershed is estimated as 140.51 million m³ taking 50% dependability of rain, which amounts to 1406.4 mm.

Central Tons river watershed

Central Tons river watershed lies in the south central part of the buffer zone. Central Tons river watershed within the buffer zone covers an area of 37.55 km² with gradient of 2.40-2.55 m/km. The catchment yield of Central Tons river watershed is estimated as 29.05 million m³ taking 50% dependability of rain, which amounts to 1406.4 mm.

Eastern Tons river watershed:

Eastern Tons river watershed lies in the south eastern part of the buffer zone. Eastern Tons river watershed within the buffer zone covers an area of 64.38 km² with gradient of 1.0-2.40 m/km. The catchment yield of Eastern Tons river watershed is estimated as 49.80 million m³ taking 50% dependability of rain, which amounts to 1406.4 mm.

4.2 Meteorological Data

4.2.1 Climate

There is no IMD meteorological station near the plant area, the nearest station being at Allahabad. However, the climatic conditions excluding the rainfall are not different than recorded at Allahabad.

Based on Koppen classification of climatic patterns, the plant area may be classified as tropical steppe, semi-arid and hot. The year is divided into four seasons. The winter season is from mid-December to February and is followed by the hot summer season from March to mid-July, including the pre-monsoon season from April to June. The period from June to mid-September constitutes the southwest monsoon season and the period from the later half of September to mid-December as post monsoon season.

4.2.2 Temperature

Temperature is the lowest at the beginning of January and increases thereafter gradually at first and then rapidly after the middle of February or the beginning of March. The annual mean temperature in the area ranges from 19.8°C to 32.4°C.

4.2.3 Rainfall

Average annual rainfall based on rainfall data recorded at Bara, the Tehsil headquarter, for the last 14 years has been observed as 1325 mm (**Table-1**). Rains are received almost in all the months of the year but rains are minimal to nil during summer months.

Table - 1. Yearly rainfall recorded at Bara Tehsil headquarter

Year	Rainfall (mm)	Year	Rainfall (mm)
1998	1535.3	2005	1230.5
1999	1655.7	2006	828.3

2000	1118.5	2007	959.9
2001	1639.5	2008	1471.7
2002	1653.0	2009	609.1
2003	1397.3	2010	1003.6
2004	1406.4	2011	2045.0

Average annual rainfall = 1325 mm

Total rainfall for year 2011 = 2045 mm

4.2.4 Humidity

High humidity of 66 to 85 per cent prevails in the morning over the region from July to February. The humidity is about 30 to 44 per cent in the morning and 15 to 23 per cent in the afternoon from March to May, April is the most dry month when the relative humidity drops down to less than 16 per cent in the afternoon.

4.2.5 Winds

Winds are generally light to moderate, except during the south west monsoon season, when these are moderate to strong. Mean wind speed is highest in June (9.4 km/hr) and lowest in November (3.40 km/hr).

Table - 2. Meteorological data as recorded at IMD Allahabad

Month	Temperature		Relative Humidity		Mean Wind Speed	Mean Cloudiness	
	Mean Daily Max °C	Mean Daily Min °C	08:30%	17:30%	Km/hr	08:30kt as	17:30kt as
Jan.	23.7	9.10	79	53	4.8	2.4	2.4

Feb.	26.7	11.6	67	37	5.5	1.9	2.1
Mar.	33.3	17.0	44	23	6.7	1.7	1.9
Apr.	38.8	22.5	30	15	7.7	1.5	1.7
May	42.1	27.4	35	19	8.7	1.4	1.5
Jun.	39.8	28.9	54	38	9.4	4.0	4.1
Jul.	33.6	26.6	80	71	8.4	6.6	6.7
Aug.	32.1	26.0	85	78	7.4	6.8	6.8
Sep.	32.8	25.2	81	71	6.6	4.9	5.1
Oct.	32.6	20.4	69	52	4.5	2.0	2.2
Nov.	29.0	13.1	66	45	3.4	1.1	1.2
Dec.	24.8	9.3	76	51	3.6	1.5	1.4
Annual mean	32.4	19.8	64	46	6.4	3.0	3.1

4.2.6 Cloudiness:

Skies are generally moderately to heavily cloudy during the southwest monsoon season, being overcast on some days. During the rest of the year, the skies are normally clear to lightly cloudy. During the months of July-August, the mean cloudiness (in Oktas) is usually more than 6, being generally higher in the evenings than the mornings.

5 PRIMARY DATA

Hydrological study includes the 10 Km radius area considering the centre as Ash pond having GPS coordinates 25°11'42.5" N 81°38'28.5" E and 25°11'11.1"N 81°38'15.2"E, covering around 30 plus wells lying in the surrounding village and 04 Piezometer lying within the plant. The lists of the villages and Piezometer along with their coordinates are given below in the Table-3. The location of wells is shown in 10 km radius is **Exhibit IV**.

5.1 WATER LEVEL

5.1.1 Core Area (within Plant)

The details of locations of Piezometer are discussed in Table-3 and shown in **Exhibit IV**.

Table-3 Locations of Piezometer

SL. No.	Piezometer Location	LATITUDE			LONGITUDE		
		Deg.	Min	Sec.	Deg.	Min	Sec.
1.	Piezometer-1	25	12	20.53	81	39	8.31
2.	Piezometer-2	25	11	15.11	81	40	7.83
3.	Piezometer-3	25	12	9.30	81	39	41.17
4.	Piezometer-4	25	12	42.84	81	39	57.53

The result of the ground water level monitoring is shown in Table-4.

Table - 4 Piezometer Water Level Depths (Core Zone)

Location	Depth of water (m)	Direction
Piezometer-1	1.43	North corner of Plant
Piezometer-2	1.98	SE corner of the plant
Piezometer-3	2.85	Beside cooling tower at center of the plant
Piezometer-4	1.44	NE corner of Plant

5.1.2 Buffer Zone (10 Km Radius)

The details of locations of 35 wells/handpumps in 10 Km radius are given in Table- 5 and shown in Exhibit no. IV. The results of the groundwater level are given as Annexure 1.

Table - 5. Villages around 10 Km. Radius (Buffer Zone)

SL. No.	VILLAGE NAME	LATITUDE			LONGITUDE		
		Deg.	Min	Sec.	Deg.	Min	Sec.
1	ASHWA	25	16	48.12	81	40	39.86
2	BADAHIYA	25	10	4.29	81	35	25.81
3	BEMRA	25	10	58.59	81	39	29.78
4	BERUI	25	11	12.98	81	38	59.67
5	BHANDIWARA	25	7	35.3	81	36	54.82
6	DOERI BENI	25	5	56.99	81	39	0.68
7	GORKHA	25	10	29.78	81	39	4.65
8	GORAKHA 02	25	10	49.39	81	38	1.34
9	GURAMI BARA	25	14	34.81	81	42	53.87
10	HINAUTI BALRAJ	25	15	11.06	81	40	21.95
11	HINAUTI	25	10	6.41	81	36	12.85
12	KAPARI	25	11	31.1	81	38	3.32
13	NIMI	25	13	57.38	81	40	50.06
14	OSA	25	10	5.71	81	43	22.54

15	KASHAUTA	25	6	54.64	81	40	59.59
16	KHAN SEMRA	25	11	17.26	81	39	28.57
17	KHANDERSAR	25	16	3.48	81	41	19.96
18	KOODI	25	10	13.92	81	35	0.4
19	KORARI	25	15	22.18	81	40	58.84
20	LALAI	25	11	51.97	81	43	57.08
21	LOHGARA	25	13	7.26	81	40	31.01
22	MISHRAPUR	25	12	43.44	81	39	25.3
23	NAYEKA	25	10	9.59	81	39	29.67
24	PIPARAO	25	14	11.51	81	42	47.11
25	PURA BAIJNATH	25	11	16.67	81	43	52.47
26	PUREBHATT	25	6	50.99	81	37	56.16
27	RAMAPAR	25	6	7.56	81	41	2.64
28	SHANKARGAH	25	11	15.12	81	36	49.88
29	SHIVRAJPUR	25	11	55.96	81	37	21.91
30	SONVARSHA	25	9	9.13	81	42	54.35
31	SONPURA	25	6	16.16	81	39	50.17
32	SURNDERPUR	25	14	3.48	81	40	26.34
33	SUTI	25	8	31.74	81	34	41.24
34	TALAPAR	25	10	44.05	81	36	26.2
35	JORWAT	25	11	3.78	81	37	53.38

5.2 WATER QUALITY

5.2.1 Core Zone

Water samples were collected from 04 locations inside the plant. The locations are shown in Exhibit IV. The samples are analysed for physic-chemical and metal parameters. The results are given in Annexure-2.

5.2.2 Buffer Zone

Water samples were collected from 16 Hand pumps from 09 villages in the buffer zone. The locations are shown in **Exhibit IV**. The samples are analysed for physic-chemical and metal parameters. The results are given in

Annexure-2.

6 RESULT AND DISCUSSION:

6.1 Water Level

6.1.1 Core Area (within Plant)

The depth of the ground water table in the Core Zone is shown in Table-4. The post-monsoon ground water level depth ranges from 1.43 meters below ground level (mbgl) to 2.85 meters below ground level (mbgl). Water level at Peizometer-1 was 1.43 meters whereas the water level at Peizometer-3 was 2.85 meters.

6.1.2 Buffer Zone (10 Km Radius)

The depths of the ground water table in the 10 Km radius area is given as Annexure 1. The post-monsoon ground water level depth ranges from 1.25 meters below ground level (mbgl) to 3.82 meters below ground level (mbgl). Water level at Beruie village was 1.25 meters whereas the water level at Jorvat Village area was 3.82 meters.

As per CGWB report for the Allahabad zone, the groundwater flow is towards river Ganga and Yamuna (limited portion).

Ground water is mainly controlled by drainage, topography and lithological behavior; it occurs underground water condition at shallow depths and under confined condition at deeper depths. Depth to water in post-monsoon ranges between 3.0 to 15.0 mbgl and average water level is 6.0 to 7.0 mbgl in Trans Ganga area. Post-monsoon water level varies between 1.45 to 13.00 mbgl in Trans Ganga area. Water level varies 5.00 to 6.00 mbgl in Trans Yamuna area.

Level of G.W. draft is 69.12% and all blocks of the district are under "SAFE" category. Maximum ground water development in Karchhana block is 89.48% and minimum in Koraon block (32.62%).

6.2 WATER QUALITY

6.2.1 CORE ZONE

Result: Sampling of Groundwater was done as per the IS standard 3025, Part-I. Total four samples have been collected from different sites from the corezone. Physico-chemical parameters analysis done for all ground water samples. pH value of water sample ranges from higher 7.27 at Piezometer No.3 and lower 8.12 at Piezometer No.2 which is well within the permissible limit as per IS 10500: 2012.

Total dissolved solids are found in the range of 240 to 458 mg/l, the highest value was found at Piezometer no.4 and lowest value found at Piezometer No.3 which is well within the permissible limit as per IS 10500: 2012.

All other physico-chemical parameters such as calcium, magnesium, chloride, sulphate, nitrates etc. are found under the permissible limit as per IS-10500:2012

Heavy metals such as copper, nickel, lead, mercury, cadmium, arsenic, cobalt and barium are found below detection limit as per IS-10500:2012.

Microbiological study of water samples shows that there is no contamination of tested microbes (T.coli and E.coli) in water samples as per prescribed standard.

6.2.2 BUFFER ZONE

Result: Total 16 samples have been collected from different sites from the buffer zone of the plant. Physico-chemical parameters analysis done for all ground water samples.

pH value of water sample varies from 7.01 at Shiv Mandir, Lohgara (Hand pump) and highest 7.91 at (Hand pump).

Total dissolved solids are found in the range of 100 mg/l at Shiv Mandir, Lohgara hand pump to 670 mg/l at Shivrajpur Village Hand Pump. All the TDS values are found under the permissible limit as per IS-10500:2012

All the other physico-chemical parameters such as Calcium, Magnesium, Chloride, Sulphate, nitrate etc all are found under the limit as per IS-10500:2012, except Alkalinity turbidity and total hardness at some of the locations.

Heavy metals such as Copper Nickel, Lead, Mercury, Cadmium, Arsenic, Cobalt and Barium are found under the limit as per IS-10500:2012.

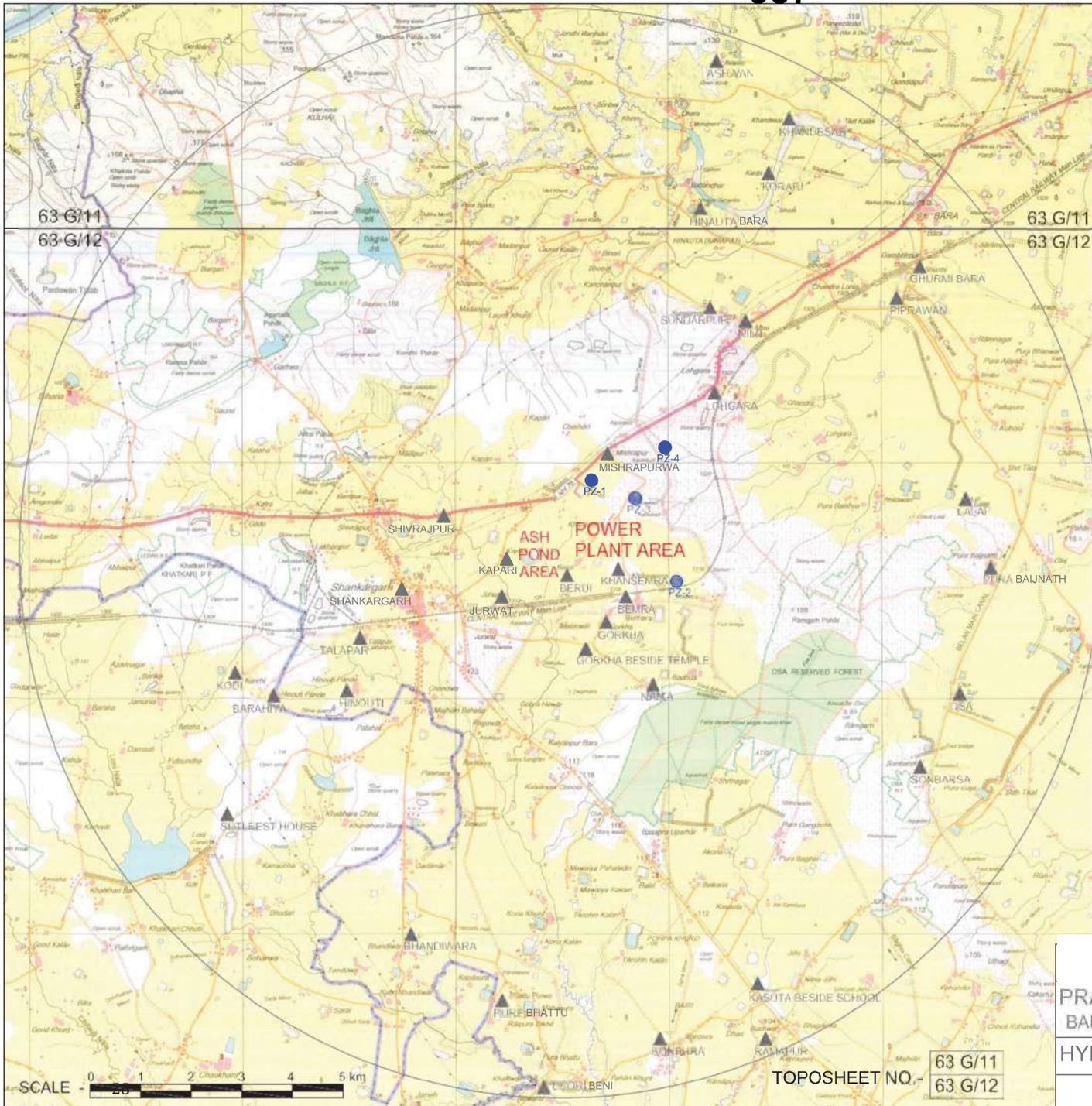
E.coli are analyzed as microbiological parameters and are found absent in all tested water samples and T.coli found present at some of the location, Ground water quality in general is fresh and potable except for a few pockets.

7 CONCLUSION

From the study it is concluded that the groundwater table depth in the core zone varies from 1.43 meters below ground level (mbgl) to 2.85 meters below ground level (mbgl) at Piezometer-1 and Piezometer-3 respectively which is SAFE as per the CGWB.

Similarly the groundwater table depth of 10 Km radius varies from 1.25 meters below ground level (mbgl) to 3.82 meters below ground level (mbgl) at Beruie village and Jorvat Village area respectively which is also found to be SAFE as per the CGWB.

The water quality in the Core zone and in the buffer area are found to be within the permissible limit of IS 10500:2012 except Alkalinity turbidity and total hardness, which are higher than the limit at some locations. Heavy metal results showed there is no contamination from Ash Dykes.



CONVENTIONAL SYMBOLS

Express highway: with toll; with bridge; with distance stone			
Roads, metalled according to importance			
Roads, double carriageway: according to importance			
Unmetalled road: Cart-track; Pack-track with pass; Foot-path			
Streams: with track in bed; undefined; Canal			
Dams: masonry or rock filled; earthwork; Weir			
River: dry with water channel; with island & rocks; Tidal river			
Submerged rocks; Shoal; Swamp; Reeds			
Wells: lined; unlined; Tube-well; Spring; Tanks: perennial; dry			
Embankments: road or rail; tank; Broken ground			
Railways: broad gauge: double; single with station; under constr.			
Railways: other gauges: double; single with distance stone; do.			
Mineral line or tramway; Kin. Cutting with tunnel			
Contours with sub-features: Rocky slopes; Cliffs			
Sand features (1)flat; (2)sand-hills(permanent); (3)dunes(shifting)			
Towns or Villages: inhabited; deserted; Fort			
Huts: permanent; temporary; Tower; Antiquities			
Temple; Chhatra; Church; Mosque; Idgah; Tomb; Graves			
Lighthouse; Lightship; Buoys: lighted; unlighted; Anchorage			
Mine; Vine on trellis; Grass; Scrub			
Palms; palmyra; other; Plantain; Conifer; Bamboo; Other trees			
Areas: cultivated; wooded; Surveyed tree			
Boundary, international			
state: demarcated; undemarcated			
district: subdivision; tahsil or taluk; forest			
Boundary pillars: surveyed; unlocated			
Height, triangulated; station; point; approximate			
Bench-mark: geodetic; tertiary; canal			
Post office; Telegraph office; Overhead tank			
Rest house or inspection bungalow; Circuit house; Police station			
Camping ground; Forest: reserved; protected			
Spaced names: administrative; locality or tribal			
Hospital; Dispensary; Veterinary; Hospital / Dispensary			
Aerodrome; Helipad; Tourist site			
Power line: with pylons surveyed; with poles unsurveyed			

PRAYAGRAJ POWER GENERATION CO.LTD.
 BARA, SHANKARGARH, PRAYAGRAJ (UP)
 HYDROLOGICAL SURVEY- 10 KM RADIUS MAP
 Exhibit IV.

LOCATION MAP OF PPGCL ,BARA ,SHANKARGARH,PRAYAGRAJ

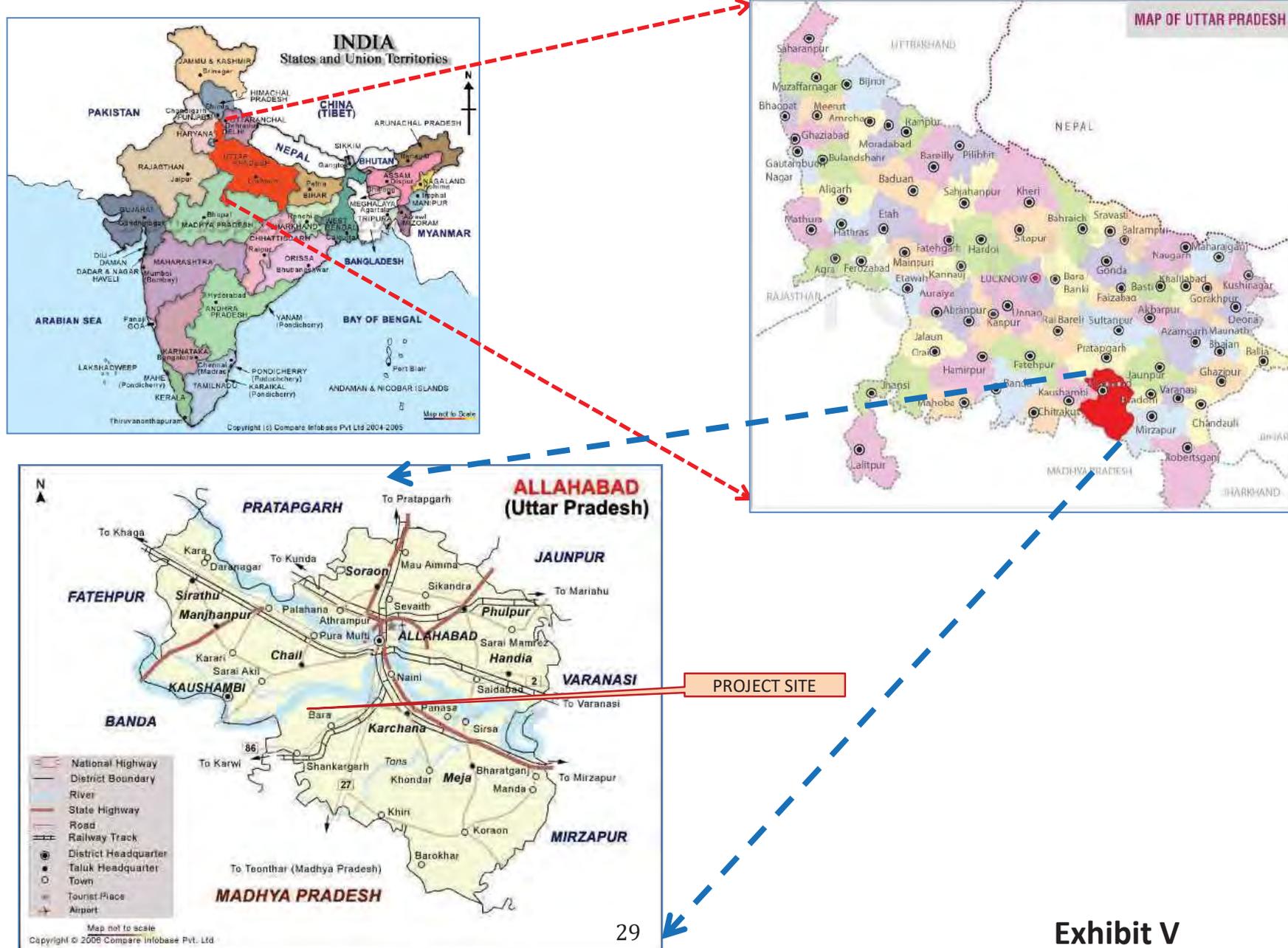


Exhibit V

ANNEXURE 1- Depths of the ground water table in the
Study area

Ground Water Level Monitoring Data of Dugwells in the Buffer Zone of M/s PPGCL, Bara

BORE WELL	LATITUDE			LONGITUDE			VILLAGE NAME	OWNER/ BELONGS TO WHOM	DEPTH (m)		DIA (m)	M.P (m)	GEOLOGY	Fitted with pump or not	If yes / HP	USE OF WELL	IDENTIFICATIO N /LANDMARK
	Deg.	Min	Sec.	Deg	Min	Sec.			May 22	Nov 22							
1	25	10	58.59	81	39	29.78	BEMRA	GP	4.23	2.34	2.96	0.75	Vindhya sandstones	No Pump	--	Domestic	Nearby Primary School of the village
2	25	11	12.98	81	38	59.67	BERUIE	Pvt	2.06	1.25	3.30	GL	Vindhya sandstones	Pump		Irrigation	In the field of Shambu Singh nearby PPGCL southern corner boundary
3	25	10	29.78	81	39	4.65	GORKHA	GP	2.28	2.14	2.25	0.75	Vindhya sandstones	No Pump	--	Domestic	Outside of the village Near Hanuman ji Temple
4	25	10	49.39	81	38	1.34	GORAKHA 02	Pvt	3.23	1.83	4.18	1.60	Vindhya sandstones	No Pump	--	Irrigation	Located in the field of Suresh Yadav ji field at the entry point of the village
5	25	11	31.1	81	38	3.32	KAPARI	GP	3.04	2.13	3.77	0.60	Vindhya sandstones	No Pump	--	Domestic	Centre of the village
6	25	12	43.44	81	39	25.3	MISHRAPUR	GP	4.01	3.55	2.75	0.40	Vindhya sandstones	No Pump	--	Domestic	Nearby PPGCL Plant, Beside Highway
7	25	11	55.96	81	37	21.91	SHIVRAJPUR	GP	3.56	3.38	4.77	0.65	Vindhya sandstones	Pump		Domestic	Beside highway towards Shankargarh opposite small temple
8	25	11	3.78	81	37	53.38	JORWAT	Pvt	5.32	3.82	6	0.5	Vindhya sandstones	No Pump	--	Domestic /Irrigation	in the house of Mr. Krishankant Tripathi
9	25	13	7.26	81	40	31.01	LOHGARA	Pvt	4.47	2.47	2.25	0.75	Vindhya sandstones	No Pump	--	Domestic	Beside railway underpass in the farming land opposite small temple

ANNEXURE 2- Test Reports

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

TEST REPORT

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

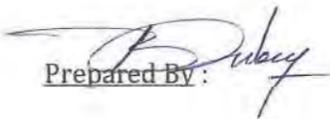
Report No. : MSK/KTN/2022-23/PZM/101
Date : 28/11/2022
Sample No. : MSKGL/ED/2022-23/11/00862
Date Of Sample : 17/11/2022
Sample Description : Piezometer Sample
Sample Mark : Piezometer No. -01 / Horticulture

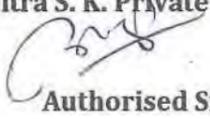
Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

Sl. No.	Parameter	Result	UOM	Method
1.	Arsenic(as As)	<0.005	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_ (O)
2.	Barium (as Ba)	<0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_ (O)
3.	Cadmium (as Cd)	<0.001	mg/l	APHA (23rd Edition)3120B 2017_ (O)
4.	Calcium (as Ca)	65	mg/l	APHA (23rd Edition) 3500 Ca B,2017_ (O)
5.	Chloride (as Cl)	12	mg/l	APHA (23rd Edition) 4500 -Cl B : 2017
6.	Cobalt (as Co)	<0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_ (O)
7.	Copper (as Cu)	<0.02	mg/l	APHA (23rd Edition) 3120 B : 2017
8.	Electrical conductivity	482	us/cm	APHA (23rd Edition) 2510B_ (O)
9.	Fluoride (as F)	0.38	mg/l	APHA (23rd Edition)4500 - F C/D, 2017_ (O)
10.	Iron (as Fe)	0.22	mg/l	APHA (23rd Edition) 3500 Fe B : 2017
11.	Lead (as Pb)	<0.005	mg/l	APHA (23rd Edition) 3120 B : 2017
12.	Magnesium (as Mg)	7.8	mg/l	APHA (23rd Edition) 3500 Mg B,2017_ (O)
13.	Manganese (as Mn)	<0.02	mg/l	APHA (23rd Edition) 3120 B : 2017
14.	Mercury (as Hg)	<0.001	mg/l	IS 3025 (Part 48): 1994
15.	Nickel (as Ni)	<0.02	mg/l	APHA (23rd Edition) 3120 B : 2017
16.	Nitrate (as NO3)	1.9	mg/l	APHA (23rd Edition) 4500 -NO3- _ E: 2017
17.	Phosphate (as PO4)	<0.15	mg/l	APHA (23rd Edition) 4500- P D, 2017_ (O)
18.	Potassium (as K)	1.5	mg/l	APHA (23rd Edition) 3500 K B 2017_ (O)
19.	Sodium (as Na)	32	mg/l	APHA (23rd Edition) 3500 Na B : 2017
20.	Sulphate (as SO4)	3.7	mg/l	APHA (23rd Edition) 4500 -SO42- E : 2017
21.	Total Alkalinity (as CaCO3)	271	mg/l	APHA 23rd Edtn-2017, 2320B_ (O)
22.	Total Chromium (as Cr)	<0.01	mg/l	APHA (23rd Edition) 3120 B : 2017
23.	Total Dissolved Solids (as TDS)	298	mg/l	APHA (23rd Edition) 2540C : 2017
24.	Zinc (as Zn)	<0.02	mg/l	APHA (23rd Edition) 3120 B : 2017
25.	pH value at 25	7.61 at 25 deg C	None	APHA (23rd Edition) 4500 -H-B : 2017

For Mitra S. K. Private Limited

Prepared By: 


 Authorised Signatory

Mitra S. K. Private Limited



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

TEST REPORT

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

Report No. : MSK/KTN/2022-23/PZM/102
Date : 28/11/2022
Sample No. : MSKGL/ED/2022-23/11/00863
Date Of Sample : 17/11/2022
Sample Description : Piezometer Sample
Sample Mark : Piezometer No. -02 / Old Civil Office

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

ANALYSIS RESULT

SL. No.	Parameter	Result	UOM	Method
1.	Arsenic(as As)	<0.005	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_ (O)
2.	Barium (as Ba)	<0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_ (O)
3.	Cadmium (as Cd)	<0.001	mg/l	APHA (23rd Edition)3120B 2017_ (O)
4.	Calcium (as Ca)	41	mg/l	APHA (23rd Edition) 3500 Ca B,2017_ (O)
5.	Chloride (as Cl)	73	mg/l	APHA (23rd Edition) 4500 -Cl B : 2017
6.	Cobalt (as Co)	<0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_ (O)
7.	Copper (as Cu)	<0.02	mg/l	APHA (23rd Edition) 3120 B : 2017
8.	Electrical conductivity	643	us/cm	APHA (23rd Edition) 2510B_ (O)
9.	Fluoride (as F)	0.56	mg/l	APHA (23rd Edition)4500 - F C/D, 2017_ (O)
10.	Iron (as Fe)	0.26	mg/l	APHA (23rd Edition) 3500 Fe B : 2017
11.	Lead (as Pb)	<0.005	mg/l	APHA (23rd Edition) 3120 B : 2017
12.	Magnesium (as Mg)	6.6	mg/l	APHA (23rd Edition) 3500 Mg B,2017_ (O)
13.	Manganese (as Mn)	<0.02	mg/l	APHA (23rd Edition) 3120 B : 2017
14.	Mercury (as Hg)	<0.001	mg/l	IS 3025 (Part 48): 1994
15.	Nickel (as Ni)	<0.02	mg/l	APHA (23rd Edition) 3120 B : 2017
16.	Nitrate (as NO3)	4.5	mg/l	APHA (23rd Edition) 4500 -NO3- _ E: 2017
17.	Phosphate (as PO4)	<0.15	mg/l	APHA (23rd Edition) 4500- P D, 2017_ (O)
18.	Potassium (as K)	2.9	mg/l	APHA (23rd Edition) 3500 K B 2017_ (O)
19.	Sodium (as Na)	92	mg/l	APHA (23rd Edition) 3500 Na B : 2017
20.	Sulphate (as SO4)	40	mg/l	APHA (23rd Edition) 4500 -SO42- E : 2017
21.	Total Alkalinity (as CaCO3)	195	mg/l	APHA 23rd Edtn-2017, 2320B_ (O)
22.	Total Chromium (as Cr)	<0.01	mg/l	APHA (23rd Edition) 3120 B : 2017
23.	Total Dissolved Solids (as TDS)	394	mg/l	APHA (23rd Edition) 2540C : 2017
24.	Zinc (as Zn)	<0.02	mg/l	APHA (23rd Edition) 3120 B : 2017
25.	pH value at 25	8.12 at 25 deg C	None	APHA (23rd Edition) 4500 -H-B : 2017

For Mitra S. K. Private Limited

Prepared By:

Authorised Signatory

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

TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/KTN/2022-23/PZM/103

Date : 28/11/2022

Sample No. : MSKGL/ED/2022-23/11/00864

Date Of Sample : 17/11/2022

Sample Description : Piezometer Sample

Sample Mark : Piezometer No. -03 / C.H.P. Area

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

ANALYSIS RESULT

SL. No.	Parameter	Result	UOM	Method
1.	Arsenic(as As)	<0.005	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_(O)
2.	Barium (as Ba)	<0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_(O)
3.	Cadmium (as Cd)	<0.001	mg/l	APHA (23rd Edition)3120B 2017_(O)
4.	Calcium (as Ca)	42	mg/l	APHA (23rd Edition) 3500 Ca B,2017_(O)
5.	Chloride (as Cl)	17	mg/l	APHA (23rd Edition) 4500 -Cl B : 2017
6.	Cobalt (as Co)	<0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_(O)
7.	Copper (as Cu)	<0.02	mg/l	APHA (23rd Edition) 3120 B : 2017
8.	Electrical conductivity	392	us/cm	APHA (23rd Edition) 2510B_(O)
9.	Fluoride (as F)	0.36	mg/l	APHA (23rd Edition)4500 - F C/D, 2017_(O)
10.	Iron (as Fe)	0.29	mg/l	APHA (23rd Edition) 3500 Fe B : 2017
11.	Lead (as Pb)	<0.005	mg/l	APHA (23rd Edition) 3120 B : 2017
12.	Magnesium (as Mg)	13	mg/l	APHA (23rd Edition) 3500 Mg B,2017_(O)
13.	Manganese (as Mn)	<0.02	mg/l	APHA (23rd Edition) 3120 B : 2017
14.	Mercury (as Hg)	<0.001	mg/l	IS 3025 (Part 48): 1994
15.	Nickel (as Ni)	<0.02	mg/l	APHA (23rd Edition) 3120 B : 2017
16.	Nitrate (as NO ₃)	10	mg/l	APHA (23rd Edition) 4500 -NO ₃ - E: 2017
17.	Phosphate (as PO ₄)	<0.15	mg/l	APHA (23rd Edition) 4500- P D, 2017_(O)
18.	Potassium (as K)	1.2	mg/l	APHA (23rd Edition) 3500 K B 2017_(O)
19.	Sodium (as Na)	22	mg/l	APHA (23rd Edition) 3500 Na B : 2017
20.	Sulphate (as SO ₄)	6.3	mg/l	APHA (23rd Edition) 4500 -SO ₄ - E : 2017
21.	Total Alkalinity (as CaCO ₃)	182	mg/l	APHA 23rd Edtn-2017, 2320B_(O)
22.	Total Chromium (as Cr)	<0.01	mg/l	APHA (23rd Edition) 3120 B : 2017
23.	Total Dissolved Solids (as TDS)	240	mg/l	APHA (23rd Edition) 2540C : 2017
24.	Zinc (as Zn)	<0.02	mg/l	APHA (23rd Edition) 3120 B : 2017
25.	pH value at 25	7.27 at 25 deg C	None	APHA (23rd Edition) 4500 -H-B : 2017

For Mitra S. K. Private Limited

Prepared By :


 Authorised Signatory

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

TEST REPORT

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

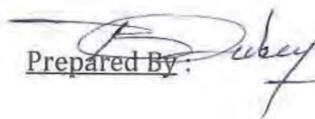
Report No. : MSK/KTN/2022-23/PZM/104
Date : 28/11/2022
Sample No. : MSKGL/ED/2022-23/11/00865
Date Of Sample : 17/11/2022
Sample Description : Piezometer Sample
Sample Mark : Piezometer No. -04 / I.T.I. College

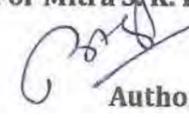
Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

SL. No.	Parameter	Result	UOM	Method
1.	Arsenic(as As)	<0.005	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_ (O)
2.	Barium (as Ba)	<0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_ (O)
3.	Cadmium (as Cd)	<0.001	mg/l	APHA (23rd Edition)3120B 2017_ (O)
4.	Calcium (as Ca)	54	mg/l	APHA (23rd Edition) 3500 Ca B,2017_ (O)
5.	Chloride (as Cl)	58	mg/l	APHA (23rd Edition) 4500 -Cl B : 2017
6.	Cobalt (as Co)	<0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_ (O)
7.	Copper (as Cu)	<0.02	mg/l	APHA (23rd Edition) 3120 B : 2017
8.	Electrical conductivity	742	us/cm	APHA (23rd Edition) 2510B_ (O)
9.	Fluoride (as F)	0.44	mg/l	APHA (23rd Edition)4500 - F C/D, 2017_ (O)
10.	Iron (as Fe)	0.23	mg/l	APHA (23rd Edition) 3500 Fe B : 2017
11.	Lead (as Pb)	<0.005	mg/l	APHA (23rd Edition) 3120 B : 2017
12.	Magnesium (as Mg)	23	mg/l	APHA (23rd Edition) 3500 Mg B,2017_ (O)
13.	Manganese (as Mn)	<0.02	mg/l	APHA (23rd Edition) 3120 B : 2017
14.	Mercury (as Hg)	<0.001	mg/l	IS 3025 (Part 48): 1994
15.	Nickel (as Ni)	<0.02	mg/l	APHA (23rd Edition) 3120 B : 2017
16.	Nitrate (as NO3)	1.4	mg/l	APHA (23rd Edition) 4500 -NO3- E: 2017
17.	Phosphate (as PO4)	<0.15	mg/l	APHA (23rd Edition) 4500- P D, 2017_ (O)
18.	Potassium (as K)	8.7	mg/l	APHA (23rd Edition) 3500 K B 2017_ (O)
19.	Sodium (as Na)	76	mg/l	APHA (23rd Edition) 3500 Na B : 2017
20.	Sulphate (as SO4)	42	mg/l	APHA (23rd Edition) 4500 -SO4- E : 2017
21.	Total Alkalinity (as CaCO3)	288	mg/l	APHA 23rd Edtn-2017, 2320B_ (O)
22.	Total Chromium (as Cr)	<0.01	mg/l	APHA (23rd Edition) 3120 B : 2017
23.	Total Dissolved Solids (as TDS)	458	mg/l	APHA (23rd Edition) 2540C : 2017
24.	Zinc (as Zn)	<0.02	mg/l	APHA (23rd Edition) 3120 B : 2017
25.	pH value at 25	7.65 at 25 deg C	None	APHA (23rd Edition) 4500 -H-B : 2017

For Mitra S. K. Private Limited

Prepared By: 


 Authorised Signatory

Mitra S. K. Private Limited



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TEST REPORT**Name & Address of the Customer :****Prayagraj Power Generation Company Ltd.****Vill.: Khan Semra,****Tehsil : Bara,****Dist.: Prayagraj [Pin- 212107]****Uttar Pradesh.****Report No. : MSKPL/FD/2022-23/6GBA9E****Date : 25/11/2022****Sample No. : MSKNB/FD/2022-23/11/ES113G****Date Of Sample : 17/11/2022****Sample Description : Drinking Water****Sample Mark : Over Head Tank {Drinking Water}****Ref. No. & Date : 9200000102, Dt-24/05/2021.****ANALYSIS RESULT**

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Aluminium (as Al)	BDL(DL:0.01)	0.03	0.2	mg/l	IS 3025(Part-2)
02.	Anionic Detergents (as MBAS)	BDL(DL:0.05)	0.2	1	mg/l	IS 13428 (Annex K)
03.	Arsenic(as As)	BDL(DL:0.005)	0.01	0.05	mg/l	IS 3025(Part-2)
04.	Barium (as Ba)	BDL(DL:0.1)	0.7	No Relaxation	mg/l	IS 3025(Part-2)
05.	Boron (as B)	BDL(DL:0.3)	0.5	1	mg/l	IS 3025(Part-2)
06.	Cadmium (as Cd)	BDL(DL:0.001)	0.003	No Relaxation	mg/l	IS 3025(Part-2)
07.	Calcium (as Ca)	39.60	75	200	mg/l	IS 3025 (Part 40)
08.	Chloride (as Cl)	44.09	250	1000	mg/l	IS 3025(Part32)
09.	Colour	BDL(DL:1.0)	5	15	Hazen	IS 3025 (Part 4)
10.	Copper (as Cu)	BDL(DL:0.02)	0.05	1.5	mg/l	IS 3025(Part-2)
11.	Cyanide (as CN)	BDL(DL:0.01)	0.05	No Relaxation	mg/l	IS 3025 (Part 27)
12.	Fluoride (as F)	BDL(DL:0.2)	1	1.5	mg/l	IS 3025 (Part 60)
13.	Hexavalent Chromium (as Cr+6)	BDL(DL:0.01)	Not specified	Not specified	mg/l	IS 3025 (Part 52)
14.	Iron (as Fe)	BDL(DL:0.05)	0.3	No Relaxation	mg/l	IS 3025 (Part 53)
15.	Lead (as Pb)	BDL(DL:0.005)	0.01	No Relaxation	mg/l	IS 3025(Part-2)
16.	Magnesium (as Mg)	16.63	30	100	mg/l	IS 3025 (Part 46)
17.	Manganese (as Mn)	BDL(DL:0.02)	0.1	0.3	mg/l	IS 3025(Part-2)
18.	Mercury (as Hg)	BDL(DL:0.0002)	0.001	No Relaxation	mg/l	IS 3025(Part-48)
19.	Molybdenum (as Mo)	BDL(DL:0.05)	0.07	No Relaxation	mg/l	IS 3025(Part-2)
20.	Nickel (as Ni)	BDL(DL:0.01)	0.02	No Relaxation	mg/l	IS 3025(Part-2)
21.	Nitrate (as NO3)	1.05	45	No Relaxation	mg/l	IS 3025 (Part 34)
22.	Odour	Agreeable	Agreeable	Agreeable	None	IS 3025 (Part 5)
23.	Phenolic Compounds (as C6H5OH)	BDL(DL:0.001)	0.001	0.002	mg/l	IS 3025 (Part 24)
24.	Residual Free Chlorine	BDL(DL:0.1)	0.2	1	mg/l	IS 3025 (Part 26)
25.	Selenium (as Se)	BDL(DL:0.005)	0.01	No Relaxation	mg/l	IS 3025(Part-2)

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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
26.	Sulphate (as SO ₄)	4.60	200	400	mg/l	IS 3025 (Part 24)
27.	Taste	Agreeable	Agreeable	Agreeable	None	IS 3025 (Part 8)
28.	Total Alkalinity (as CaCO ₃)	112.2	200	600	mg/l	IS 3025 (Part 23)
29.	Total Dissolved Solids (as TDS)	246	500	2000	mg/l	IS 3025 (Part 16)
30.	Total Hardness (as CaCO ₃)	168.3	200	600	mg/l	IS 3025 (Part 21)
31.	Turbidity	BDL(DL:1.0)	1	5	N.T.U.	IS 3025 (Part 10)
32.	Zinc (as Zn)	BDL(DL:0.02)	5	15	mg/l	IS 3025(Part-2)
33.	Ph at 25	7.82	6.5-8.5	No Relaxation		IS-3025 (Part 11)
34.	E.coli	Not Detected	Not Detectable	Not Applicable	/100ml	IS 15185:2016
35.	Total coliform bacteria	Not Detected	Not Detectable	Not Applicable	/100ml	IS 15185:2016

Prepared By: 

For Mitra S. K. Private Limited


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TEST REPORT**Name & Address of the Customer :****Prayagraj Power Generation Company Ltd.****Vill.: Khan Semra,****Tehsil : Bara,****Dist.: Prayagraj [Pin- 212107]****Uttar Pradesh.****Report No. : MSK/KTN/2022-23/GDW/085****Date : 02/12/2022****Sample No. : MSKGL/ED/2022-23/11/00913****Date Of Sample : 17/11/2022****Sample Description : Ground Drinking Water****Sample Mark : HP-1, Kapari Transport Area****Ref. No. & Date : 9200000102, Dt -24/05/2021.****ANALYSIS RESULT**

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	246	200	600	mg/l	APHA (23rd Edition) 2320B 2017_(O)
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition) 3113B : 2017
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017_(O)
04.	Arsenic (as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_(O)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_(O)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)2540C_(O)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
08.	Calcium (as Ca)	49	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017_(O)
09.	Chloride (as Cl)	15	250	1000	mg/l	APHA (23rd Edition) 4500 -Cl B : 2017
10.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B : 2017
11.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition) 3120 B : 2017
12.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition) 4500 -CN- F: 2017
13.	Fluoride (as F)	0.32	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017_(O)
14.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014_(O)
15.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA (23rd Edition) 3500 Cr B : 2017
16.	Iron (as Fe)	0.28	0.3	No Relaxation	mg/l	APHA (23rd Edition) 3500 Fe B : 2017
17.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition) 3120 B : 2017
18.	Magnesium (as Mg)	20	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017_(O)
19.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition) 3120 B : 2017
20.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025 (Part 48): 1994
21.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition) 3120 B : 2017
22.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition) 3120 B : 2017
23.	Nitrate (as NO ₃)	8.1	45	No Relaxation	mg/l	APHA (23rd Edition) 4500 -NO ₃ - E: 2017

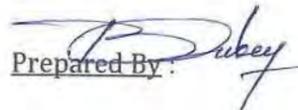
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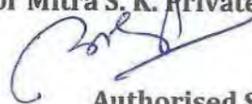


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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
24.	Odour	Agreeable	Agreeable	Agreeable	None	APHA (23rd Edition) 2150B : 2017
25.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition) 5530C : 2017
26.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition) 3120 B : 2017
27.	Sulphate (as SO ₄)	8.1	200	400	mg/l	APHA (23rd Edition) 4500 -SO ₄ - E : 2017
28.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012_(O)
29.	Total Dissolved Solids (as TDS)	302	500	2000	mg/l	APHA (23rd Edition) 2540C : 2017
30.	Total Hardness (as CaCO ₃)	204	200	600	mg/l	APHA (23rd Edition) 2340 C 2017_(O)
31.	Turbidity	12	1	5	N.T.U.	APHA (23rd Edition) 2130B : 2017
32.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition) 3120 B : 2017
33.	pH	7.27 at 25 deg C	6.5-8.5	No Relaxation	None	APHA (23rd Edition) 4500 -H-B : 2017
34.	E.coli	Not Detected		NA	/100ml	APHA 23rd Edition 9221 F_(O)
35.	Total coliform bacteria	<1.8		NA	/100ml	APHA 23rd Edition 9221 B_(O)

Prepared By: 

For Mitra S. K. Private Limited


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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.
Report No. : MSK/KTN/2022-23/GDW/086
Date : 02/12/2022
Sample No. : MSKGL/ED/2022-23/11/00914
Date Of Sample : 17/11/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-2 KAPARI PANCHAYAT BHAWAN
Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	250	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	118	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	125	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
11.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
12.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
13.	Fluoride (as F)	0.26	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
14.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
15.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
16.	Iron (as Fe)	0.26	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
17.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
18.	Magnesium (as Mg)	27	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
19.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
20.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
21.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
23.	Nitrate (as NO ₃)	8.5	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017

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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
24.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
25.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
26.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
27.	Sulphate (as SO ₄)	164	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
28.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
29.	Total Dissolved Solids (as TDS)	476	500	2000	mg/l	APHA (23rd Edition) 2540C
30.	Total Hardness (as CaCO ₃)	198	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
31.	Turbidity	5	1	5	N.T.U.	APHA (23rd Edition) 2130B
32.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
33.	pH	7.11 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
34.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
35.	Total coliform bacteria	<1.8		NA	MPN/100ml 1	IS 1622 : 1981 (RA 2019)

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TEST REPORT

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

Report No. : MSK/KTN/2022-23/GDW/087
Date : 02/12/2022
Sample No. : MSKGL/ED/2022-23/11/00915
Date Of Sample : 17/11/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-3 KAPARI VILLAGE (BOUNDARY WALL)

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	394	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	152	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	336	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
11.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
12.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
13.	Fluoride (as F)	0.93	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017.
14.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
15.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
16.	Iron (as Fe)	<0.05	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
17.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
18.	Magnesium (as Mg)	53	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
19.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
20.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
21.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
23.	Nitrate (as NO ₃)	18	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017

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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
24.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
25.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
26.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
27.	Sulphate (as SO ₄)	257	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
28.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
29.	Total Dissolved Solids (as TDS)	532	500	2000	mg/l	APHA (23rd Edition) 2540C
30.	Total Hardness (as CaCO ₃)	216	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
31.	Turbidity	<1.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
32.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
33.	pH	7.44 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
34.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
35.	Total coliform bacteria	17		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)

Prepared By:

For Mitra S. K. Private Limited

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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.
Report No. : MSK/KTN/2022-23/GDW/088
Date : 02/12/2022
Sample No. : MSKGL/ED/2022-23/11/00916
Date Of Sample : 17/11/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-4 KAPARI VILLAGE (BESIDE PRIMARY SCHOOL)
Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	293	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	72	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	65	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
11.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
12.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
13.	Fluoride (as F)	0.64	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
14.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
15.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
16.	Iron (as Fe)	<0.05	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
17.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
18.	Magnesium (as Mg)	27	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
19.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
20.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
21.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
23.	Nitrate (as NO ₃)	23	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO3-E, 2017

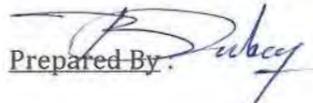
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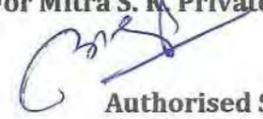


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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
24.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
25.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
26.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
27.	Sulphate (as SO ₄)	52	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
28.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
29.	Total Dissolved Solids (as TDS)	514	500	2000	mg/l	APHA (23rd Edition) 2540C
30.	Total Hardness (as CaCO ₃)	294	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
31.	Turbidity	<1.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
32.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
33.	pH	7.76 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
34.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
35.	Total coliform bacteria	<1.8		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)

Prepared By: 

For Mitra S. K. Private Limited


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TEST REPORT

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

Report No. : MSK/KTN/2022-23/GDW/089
Date : 02/12/2022
Sample No. : MSKGL/ED/2022-23/11/00917
Date Of Sample : 17/11/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-5 JORVAT VILLAGE (TURNING)

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

ANALYSIS RESULT

Sl. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	237	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	77	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	92	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
11.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
12.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
13.	Fluoride (as F)	0.43	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017.
14.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
15.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
16.	Iron (as Fe)	<0.05	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
17.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
18.	Magnesium (as Mg)	11	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
19.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
20.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
21.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
23.	Nitrate (as NO ₃)	16	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO3-E, 2017

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sknigam@mitrask.co.in

Sl. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
24.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
25.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
26.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
27.	Sulphate (as SO ₄)	28	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
28.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
29.	Total Dissolved Solids (as TDS)	460	500	2000	mg/l	APHA (23rd Edition) 2540C
30.	Total Hardness (as CaCO ₃)	237	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
31.	Turbidity	<1.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
32.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
33.	pH	7.45 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
34.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
35.	Total coliform bacteria	27		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)

Prepared By:

For Mitra S. K. Private Limited

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TEST REPORT

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

Report No. : MSK/KTN/2022-23/GDW/090
Date : 02/12/2022
Sample No. : MSKGL/ED/2022-23/11/00918
Date Of Sample : 17/11/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-6 JORVAT VILLAGE

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	225	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	56	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	96	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
11.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
12.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
13.	Fluoride (as F)	0.29	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
14.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
15.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
16.	Iron (as Fe)	0.24	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
17.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
18.	Magnesium (as Mg)	30	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
19.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
20.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
21.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
23.	Nitrate (as NO ₃)	43	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO3-E, 2017

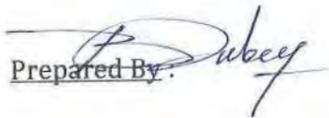
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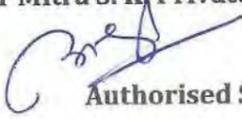


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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
24.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
25.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
26.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
27.	Sulphate (as SO ₄)	50	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
28.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
29.	Total Dissolved Solids (as TDS)	530	500	2000	mg/l	APHA (23rd Edition) 2540C
30.	Total Hardness (as CaCO ₃)	265	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
31.	Turbidity	15	1	5	N.T.U.	APHA (23rd Edition) 2130B
32.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
33.	pH	7.09 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
34.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
35.	Total coliform bacteria	22		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)

Prepared By: 

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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.
Report No. : MSK/KTN/2022-23/GDW/091
Date : 02/12/2022
Sample No. : MSKGL/ED/2022-23/11/00919
Date Of Sample : 17/11/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-7 JORVAT (RAILWAY CROSSING)
Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	305	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	41	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	111	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
11.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
12.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
13.	Fluoride (as F)	0.72	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
14.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
15.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
16.	Iron (as Fe)	0.11	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
17.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
18.	Magnesium (as Mg)	29	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
19.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
20.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
21.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
23.	Nitrate (as NO ₃)	32	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017

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Sl. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
24.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
25.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
26.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
27.	Sulphate (as SO ₄)	63	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
28.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
29.	Total Dissolved Solids (as TDS)	622	500	2000	mg/l	APHA (23rd Edition) 2540C
30.	Total Hardness (as CaCO ₃)	273	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
31.	Turbidity	2.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
32.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
33.	pH	7.91 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
34.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
35.	Total coliform bacteria	13		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)

Prepared By:

For Mitra S. K. Private Limited

 Authorised Signatory

Mitra S. K. Private Limited



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TEST REPORT

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

Report No. : MSK/KTN/2022-23/GDW/092
Date : 02/12/2022
Sample No. : MSKGL/ED/2022-23/11/00920
Date Of Sample : 17/11/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-8 BEMARA VILLAGE 1ST

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	331	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	124	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	236	250	1000	mg/l	APHA (23rd Edition)4500- Cl B 2017
10.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
11.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
12.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
13.	Fluoride (as F)	0.41	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
14.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
15.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
16.	Iron (as Fe)	0.12	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
17.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
18.	Magnesium (as Mg)	20	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
19.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
20.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
21.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
23.	Nitrate (as NO ₃)	41	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017

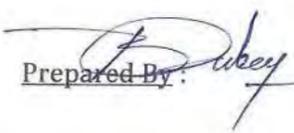
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Sl. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
24.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
25.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
26.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
27.	Sulphate (as SO ₄)	113	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
28.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
29.	Total Dissolved Solids (as TDS)	492	500	2000	mg/l	APHA (23rd Edition) 2540C
30.	Total Hardness (as CaCO ₃)	197	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
31.	Turbidity	2.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
32.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
33.	pH	7.43 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
34.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
35.	Total coliform bacteria	<1.8		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)

Prepared By: 

For Mitra S. K. Private Limited


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TEST REPORT**Name & Address of the Customer :****Prayagraj Power Generation Company Ltd.****Vill.: Khan Semra,****Tehsil : Bara,****Dist.: Prayagraj [Pin- 212107]****Uttar Pradesh.****Report No. : MSK/KTN/2022-23/GDW/093****Date : 02/12/2022****Sample No. : MSKGL/ED/2022-23/11/00921****Date Of Sample : 17/11/2022****Sample Description : Ground Drinking Water****Sample Mark : HP-9 KHAN SEMARA****Ref. No. & Date : 9200000102, Dt -24/05/2021.****ANALYSIS RESULT**

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	178	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition) 5540 C, 2017
04.	Arsenic (as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017
08.	Calcium (as Ca)	44	75	200	mg/l	APHA (23rd Edition) 3500 Ca B, 2017
09.	Chloride (as Cl)	67	250	1000	mg/l	APHA (23rd Edition) 4500-Cl B 2017
10.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
11.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)
12.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition) 4500 CN- F 2017
13.	Fluoride (as F)	0.30	1.0	1.5	mg/l	APHA (23rd Edition) 4500 - F C/D, 2017
14.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
15.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
16.	Iron (as Fe)	0.27	0.3	No Relaxation	mg/l	APHA (23rd Edition) 3500 Fe B 2017
17.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017
18.	Magnesium (as Mg)	25	30	100	mg/l	APHA (23rd Edition) 3500 Mg B, 2017
19.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition) 3120B 2017 (ICP OES)
20.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025 (Part 48)-1994; Rffm:2014
21.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017
22.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition) 3120B 2017
23.	Nitrate (as NO ₃)	12	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO3-E, 2017

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sknigam@mitrask.co.in

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
24.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
25.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
26.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
27.	Sulphate (as SO ₄)	34	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
28.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
29.	Total Dissolved Solids (as TDS)	354	500	2000	mg/l	APHA (23rd Edition) 2540C
30.	Total Hardness (as CaCO ₃)	212	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
31.	Turbidity	18	1	5	N.T.U.	APHA (23rd Edition) 2130B
32.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
33.	pH	7.04 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
34.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
35.	Total coliform bacteria	21		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)

Prepared By:

For Mitra S. K Private Limited

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Mitra S. K. Private Limited



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TEST REPORT

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

Report No. : MSK/KTN/2022-23/GDW/094
Date : 02/12/2022
Sample No. : MSKGL/ED/2022-23/11/00922
Date Of Sample : 17/11/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-10 BERUIE VILLAGE

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	263	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	126	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	171	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
11.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
12.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
13.	Fluoride (as F)	0.64	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
14.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
15.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
16.	Iron (as Fe)	0.08	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
17.	Lead (as Pb)	<0.001	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
18.	Magnesium (as Mg)	15	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
19.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
20.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
21.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
23.	Nitrate (as NO ₃)	16	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO3-E, 2017

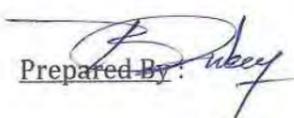
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sknigam@mitrask.co.in

Sl. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
24.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
25.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
26.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
27.	Sulphate (as SO ₄)	190	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
28.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
29.	Total Dissolved Solids (as TDS)	464	500	2000	mg/l	APHA (23rd Edition) 2540C
30.	Total Hardness (as CaCO ₃)	175	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
31.	Turbidity	2.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
32.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
33.	pH	7.68 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
34.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
35.	Total coliform bacteria	49		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)

Prepared By: 

For Mitra S. K. Private Limited


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Mitra S. K. Private Limited



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TEST REPORT

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

Report No. : MSK/KTN/2022-23/GDW/095
Date : 02/12/2022
Sample No. : MSKGL/ED/2022-23/11/00923
Date Of Sample : 17/11/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-11 LOHGARA (SHIV MANDIR)

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	59	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	13	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	12	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
11.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
12.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
13.	Fluoride (as F)	0.12	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
14.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
15.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
16.	Iron (as Fe)	0.21	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
17.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
18.	Magnesium (as Mg)	3.9	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
19.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
20.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
21.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
23.	Nitrate (as NO ₃)	5.7	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO3-E, 2017

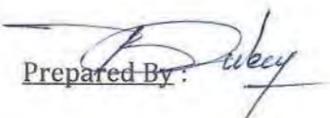
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Sl. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
24.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
25.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
26.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
27.	Sulphate (as SO ₄)	3.0	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
28.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
29.	Total Dissolved Solids (as TDS)	100	500	2000	mg/l	APHA (23rd Edition) 2540C
30.	Total Hardness (as CaCO ₃)	49	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
31.	Turbidity	38	1	5	N.T.U.	APHA (23rd Edition) 2130B
32.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
33.	pH	7.01 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
34.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
35.	Total coliform bacteria	<1.8		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)

Prepared By: 

For Mitra S. K. Private Limited



Authorised Signatory

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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.
Report No. : MSK/KTN/2022-23/GDW/096
Date : 02/12/2022
Sample No. : MSKGL/ED/2022-23/11/00924
Date Of Sample : 17/11/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-12 MISHRAPUR
Ref. No. & Date : 9200000102. Dt -24/05/2021.

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	216	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	54	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	44	250	1000	mg/l	APHA (23rd Edition)4500 -Cl B 2017
10.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
11.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
12.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
13.	Fluoride (as F)	0.23	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
14.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
15.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
16.	Iron (as Fe)	0.16	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
17.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
18.	Magnesium (as Mg)	21	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
19.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
20.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
21.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
23.	Nitrate (as NO ₃)	24	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO3-E, 2017

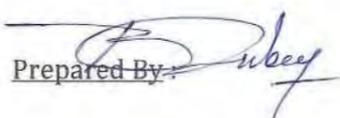
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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
24.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
25.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
26.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
27.	Sulphate (as SO ₄)	18	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
28.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
29.	Total Dissolved Solids (as TDS)	350	500	2000	mg/l	APHA (23rd Edition) 2540C
30.	Total Hardness (as CaCO ₃)	220	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
31.	Turbidity	3.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
32.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
33.	pH	7.58 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
34.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
35.	Total coliform bacteria	27		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)

Prepared By: 

For Mitra S. K. Private Limited


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TEST REPORT

Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.
Report No. : MSK/KTN/2022-23/GDW/097
Date : 02/12/2022
Sample No. : MSKGL/ED/2022-23/11/00925
Date Of Sample : 17/11/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-13 LOHGARA (MAIN ROAD DURGA MAIDAN)
Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

Sl. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	198	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	111	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	219	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
11.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
12.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
13.	Fluoride (as F)	0.39	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
14.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
15.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
16.	Iron (as Fe)	0.29	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
17.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
18.	Magnesium (as Mg)	28	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
19.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
20.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
21.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
23.	Nitrate (as NO ₃)	42	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO ₃ -E, 2017

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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
24.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
25.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
26.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
27.	Sulphate (as SO ₄)	70	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
28.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
29.	Total Dissolved Solids (as TDS)	505	500	2000	mg/l	APHA (23rd Edition) 2540C
30.	Total Hardness (as CaCO ₃)	207	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
31.	Turbidity	4.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
32.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
33.	pH	7.60 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
34.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
35.	Total coliform bacteria	<1.8		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)

Prepared By:

For Mitra S. K. Private Limited

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TEST REPORT**Name & Address of the Customer :****Prayagraj Power Generation Company Ltd.**

Vill.: Khan Semra,

Tehsil : Bara,

Dist.: Prayagraj [Pin- 212107]

Uttar Pradesh.

Report No. : MSK/KTN/2022-23/GDW/098

Date : 02/12/2022

Sample No. : MSKGL/ED/2022-23/11/00926

Date Of Sample : 17/11/2022

Sample Description : Ground Drinking Water

Sample Mark : HP-14 SHIVRAJPUR

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

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	209	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	157	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	180	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
11.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
12.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
13.	Fluoride (as F)	0.60	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
14.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
15.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
16.	Iron (as Fe)	0.27	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
17.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
18.	Magnesium (as Mg)	24	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
19.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
20.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
21.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
23.	Nitrate (as NO ₃)	43	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO3-E, 2017

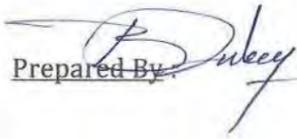
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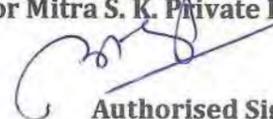


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SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
24.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
25.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
26.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
27.	Sulphate (as SO ₄)	97	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
28.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
29.	Total Dissolved Solids (as TDS)	670	500	2000	mg/l	APHA (23rd Edition) 2540C
30.	Total Hardness (as CaCO ₃)	239	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
31.	Turbidity	2.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
32.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
33.	pH	7.37 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
34.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
35.	Total coliform bacteria	34		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)

Prepared By: 

For Mitra S. K. Private Limited


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TEST REPORT

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

Report No. : MSK/KTN/2022-23/GDW/099
Date : 02/12/2022
Sample No. : MSKGL/ED/2022-23/11/00927
Date Of Sample : 17/11/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-15 SHANKARGARH

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	222	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	106	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017.
09.	Chloride (as Cl)	132	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
11.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
12.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
13.	Fluoride (as F)	0.91	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
14.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014.
15.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
16.	Iron (as Fe)	0.13	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
17.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
18.	Magnesium (as Mg)	26	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
19.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
20.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
21.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
23.	Nitrate (as NO ₃)	44	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO3-E, 2017

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sknigam@mitrask.co.in

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
24.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
25.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
26.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
27.	Sulphate (as SO ₄)	72	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
28.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
29.	Total Dissolved Solids (as TDS)	482	500	2000	mg/l	APHA (23rd Edition) 2540C
30.	Total Hardness (as CaCO ₃)	208	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
31.	Turbidity	2.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
32.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
33.	pH	7.40 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
34.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
35.	Total coliform bacteria	<1.8		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)

Prepared By:

For Mitra S. K. Private Limited

Authorised Signatory

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

TEST REPORT

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

Report No. : MSK/KTN/2022-23/GDW/100
Date : 02/12/2022
Sample No. : MSKGL/ED/2022-23/11/00928
Date Of Sample : 17/11/2022
Sample Description : Ground Drinking Water
Sample Mark : HP-16 BEMARA VILLAGE

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	407	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	225	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	365	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
11.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
12.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
13.	Fluoride (as F)	0.39	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
14.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
15.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
16.	Iron (as Fe)	0.28	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
17.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
18.	Magnesium (as Mg)	28	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
19.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
20.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
21.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
23.	Nitrate (as NO ₃)	44	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO3-E, 2017

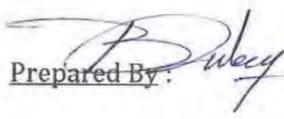
H.O : Shrachi Centre (5th Floor), 74B, Acharya Jagadish Chandra Bose Road, Kolkata – 700016, West Bengal, India
 T : 91 33 22172249 / 40143000 / 22650006 / 22650007, F : 91 33 22650008 E : info@mitrask.com, W : www.mitrask.com

Mitra S. K. Private Limited



Above Punjab National Bank
 Maihar Road, NH-7, Kuthla,
 Katni – 483501 (M.P.)
 CIN: U51909WB1956PTC023037
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sknigam@mitrask.co.in

Sl. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
24.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
25.	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
26.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
27.	Sulphate (as SO ₄)	151	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
28.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
29.	Total Dissolved Solids (as TDS)	590	500	2000	mg/l	APHA (23rd Edition) 2540C
30.	Total Hardness (as CaCO ₃)	281	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
31.	Turbidity	7.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
32.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
33.	pH	7.15 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B
34.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
35.	Total coliform bacteria	<1.8		NA	MPN/100ml	IS 1622 : 1981 (RA 2019)

Prepared By: 

For Mitra S. K. Private Limited


 Authorised Signatory

H.O : Shrachi Centre (5th Floor), 74B, Acharya Jagadish Chandra Bose Road, Kolkata – 700016, West Bengal, India
 T : 91 33 22172249 / 40143000 / 22650006 / 22650007, F : 91 33 22650008 E : info@mitrask.com, W : www.mitrask.com


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**PRAYAGRAJ POWER
GENERATION COMPANY LTD.**

PPGCL/ ENVI/ FY 21/ 142

Date : 12.09.2020

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

Sub: Update on URL and password of PTZ camera installed in compliance to water consent specific condition no 12 granted vide Ref no – 69611 dated 24.02.2020

Dear Sir,

With reference to the above mentioned subject please find the URL, User id and password to access the data of PTZ camera.

URL - <http://tpro.telsys.in/>
User - abhas.tiwari@ppgcl.co.in
Password - Abhas@123#

This is for your kind information and record please.

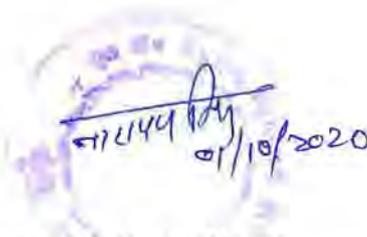
Thanking You,
Sincerely

For Prayagraj Power Generation Company Limited


K. R. Bairwa
Chief - O&M Services

✓ Cc.

The Regional Officer
U.P Pollution Control Board, Sector-10, Yojna No.-3,
Avas Vikas Parishad Colony, Jhusi, Prayagraj



Registered Office : Shatabdi Bhawan, B 12 & 13, Sector 4, Gautam Budh Nagar, Noida, Uttar Pradesh - 201301
Plant Address : P.O. - Lohgara, Tehsil - Bara, Prayagraj (Allahabad), Uttar Pradesh - 212107
Phone: +91-120-6102000/6102009, +91-7525006400, +91-8528846666
-CIN: U40101UP2007SGC032835, Web:-ppgcl.co.in, Email:-ppgcl@ppgcl.co.in


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PPGCL/ENV/FY24/023

Date: 29.04.2023

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

Subject: Quarterly Stack, Ambient Air, and Ground Water monitoring report for the period
January' 23 to March' 23.

Ref: CTO Ref No 102011 Air and 102087 Water issued on 29.12.2020.

Dear Sir,

With Reference to the above-mentioned subject and condition of CTO, please find enclosed
Quarterly Stack, Ambient Air, and Ground Water monitoring report for the period January' 23
to March' 23.

This is for your kind information and record please.

Yours Sincerely,

For Prayagraj Power Generation Company Limited


S H Pandey

Chief-O&M Services



Encl: Quarterly Stack, Ambient Air, and Ground Water monitoring report

Cc: The Regional Officer

U.P. Pollution Control Board, Prayagraj

Prayagraj Power Generation Company Limited

Registered Office : Shatabdi Bhawan, B 12 & 13, Sector 4, Gautam Budh Nagar, Noida, Uttar Pradesh - 201301
Phone: + 91-120-6102000/6102208 CIN: U40101UP2007PLC032835

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

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Address of Laboratory :

Building No. P- 48 Udayan Industrial Estate,
3 Pagladanga Road, Kolkata 700015
West Bengal
Tel: +91 7044036120
Email: udayanlab@mitrask.com



TC-6950



Scan for Portal

ULR: TC-69502300000398F

Name & Address of Customer :

Prayagraj Power Generation Company Ltd

Vill. Khan Semra
Tehsil Bara
Dist. Prayagraj Uttar Pradesh India Pin 212107

TEST REPORT**Report No. :**

MSKPL/ED/2022-23/JUJ41L

Date :

25/01/2023

Sample No. :

MSKNB/ED/2022-23/01/9V212B

Date of receipt of sample:

14/01/2023

Date(s) of performance:

14/01/2023 - 25/01/2023

Location of performance of

Permanent Facility

Reference No. & Date :

920000102, Date - 24/05/2021

Discipline:

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Atmospheric Pollution
2. Description of sample	Stack Emission
3. Unique Identification of sample(if any)	NA
4. Date of sampling	10/01/2023
5. Time of sampling	10:51 to 12:01 PM
6. Place of sampling	STACK OF CHEMNEY UNIT #1
7. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
8. Sampling Plan & Method used	IS & USEPA
9. Identification of the personnel performing sampling by MSK	RAMESH KUMAR NISHAD
10. Field Equipments Used	MSK/KTE/SMK - 01

Report No. : MSKPL/ED/2022-23/JUJ41L**Sample No. :** MSKNB/ED/2022-23/01/9V212B**RESULT****General Information about Stack**

1	DG capacity	Load-572 2MW Coal Flow-355 4TPH
2	Emission due to	BURNING OF COAL
3	Material of construction of stack	M S
4	Shape of stack	CIRCULAR
5	Stack connected to	UNIT #1
6	Whether stack is provided with permanent platform	YES

Physical Characteristics of Stack

1	Area of stack	43.03 m ²
2	Diameter of the stack at sampling point	7.4 m
3	Height of stack from ground level	275 m
4	Height of the sampling point from GL	80 m

Pollution Control Device

1	Details of pollution control devices attached with	ESP
---	--	-----

Analysis/Characteristic of Stack

Reviewed By

Signature

Name

Ms. Paulami Dutta

Designation

Sr. Executive QA

Authorized Signatory

Signature

Name

Dr. Shouryadeep Mukherjee

Designation

Lab In-charge

Address of Laboratory :

Building No P- 48 Udayan Industrial Estate
3, Pagladanga Road, Kolkata 700015
West Bengal
Tel : +91 7044036120
Email: udayanlab@mitrask.com



TC-6950



Scan for Portal

ULR: TC-695023000000398F

Report No. : MSKPL/ED/2022-23/JUJ41L

Sample No. : MSKNB/ED/2022-23-01/9V212B

RESULT

Analysis/Characteristic of Stack

1	Fuel consumption:	NA
2	Fuel used:	Coal

Sampling & Analysis of Gaseous Emission

SL No.	Parameter	Unit	Method	Value
1	Barometric pressure	mm of Hg	IS : 11255 (Part 3) : 2008	742
2	Concentration of Carbon dioxide	% v/v	IS 13270 : 1992	8.2
3	Concentration of Carbon monoxide	mg/Nm ³	IS 13270 : 1992	<0.2
4	Concentration of Nitrogen oxides	mg/Nm ³	IS 11255 (Part 7) : 2005	358.8
5	Concentration of Oxygen	% v/v	IS 13270 : 1992	10.0
6	Concentration of Particulate Matters	mg/Nm ³	IS : 11255 (Part 1) : 1985	48.7
7	Concentration of Sulphur dioxide	mg/Nm ³	IS 11255 (Part 2) : 1985	506.7
8	Mercury as Hg (Gaseous)	mg/Nm ³	USEPA 29 by CVAS : 1996	<0.003
9	Mercury as Hg (Particulate)	mg/Nm ³	USEPA 29 : 1996	0.008
10	Moisture content	%	IS : 11255 (Part 3) : 2008	<2.0
11	Quantity of gas flow	Nm ³ /hr	IS : 11255 (Part 3) : 2008	25891.21
12	Temperature of emission	Deg C	IS : 11255 (Part 3) : 2008	107
13	Velocity of gas	m/s	IS : 11255 (Part 3) : 2008	22.174

Opinion : NA

Statement of Conformity : NA

----- END -----

Reviewed By:

Signature:
Name: Ms. Paulina Dutta
Designation: Sr. Executive QA

Authorized Signatory:

Signature:
Name: Dr. Subhankar Mitra
Designation: Lab in-charge

The results relate only to the items tested.
This Test Report shall not be reproduced except in full, without the permission of Mitra S. K. Private Limited.
The reserved part of sample(s) for chemical analysis (Non - perishable samples), Food, Water shall be retained for 15 days from the date of issue of the Test Report. Perishable samples shall be retained 2 days from the date of issue of the Test Report.
The reserved part of sample(s) for chemical analysis (Soil, Solid & Liquid Waste) shall be retained for 15 days as per CPCB guideline & (Air) 1 month from the date of issue of the Test Report.
The reserved part of sample(s) for Microbiological analysis (Non - perishable samples), Food, Sewage/Water, Stewed food shall be retained for 15 days from the date of issue of the Test Report.

Mitra S. K. Private Limited



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

TEST REPORT

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

Report No. : MSKPL/ED/2022-23/DDC41E
 Date : 25.01.2023
 Sample No. : MSKNB/ED/2022-23/01/RD210B
 Sample Description : Stack Monitoring
 Date of Receipt of Sample: 14/01/2023
 Sample Mark : Thimble No.- 112 / Unit - III

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

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit - III	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	DG Capacity	:	660 MW	
7.	Load	:	611 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 276.5 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
SL. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	CO	<0.2	ppm	IS:13270 :1992 Reaff,2014
2.	CO ₂	8.4	% v/v	IS:13270 :1992 Reaff,2014
3.	NO ₂	460.2	mg/Nm ³	IS 11255 (Part 7) :2005 RA2017
4.	O ₂	6.2	% v/v	IS:13270 :1992 Reaff,2014
5.	PM	31.2	mg/Nm ³	IS 11255 (Part I):1985,RA 2014
6.	SO ₂	596.9	mg/Nm ³	IS 11255 (Part II)-1985, RA:2014
7.	Temperature	115	Deg C	IS 11255 (Part III),2008RA 2018
8.	Barometric pressure	742	mm of Hg	IS 11255 (Part III),2008RA 2018
9.	Concentration of Mercury	<0.003	micro gm/m ³	USEPA-29 - 25/06/1996
10.	Moisture content	0.979	%	IS 11255 (Part III),2008RA 2018
11.	Quantity of gas flow	2576035.043	Nm ³ /hr	IS 11255 (Part III),2008RA 2018
12.	Velocity of gas	22.55	m/s	IS 11255 (Part III),2008RA 2018

For Mitra S. K. Private Limited

Prepared By

Authorised Signatory

Mitra S. K. Private Limited



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

TEST REPORT

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

Report No. : MSKPL/ED/2022-23/JQH46X
Date : 20.02.2023
Sample No. : MSKNB/ED/2022-23/02/RD40BF
Sample Description : Stack Monitoring
Date of Receipt of Sample: 13/02/2023
Sample Mark : Thimble No.- 971 / Unit – I

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

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit - I	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	DG Capacity	:	660 MW	
7.	Load	:	606.4 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 363 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
Sl. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	Barometric pressure	742	mm of Hg	IS : 11255 (Part 3) : 2008
2.	Carbon Dioxide	6.3	% v/v	IS 13270 : 1992
3.	Carbon Monoxide	0.2	% v/v	IS 13270 : 1992
4.	Mercury as Hg (Gaseous)	<0.003	mg/Nm ³	USEPA 29 by CVAS: 1996
5.	Moisture content	3.2	%	IS : 11255 (Part 3) : 2008
6.	Nitrogen oxides	388.9	mg/Nm ³	IS 11255 (Part 7) : 2005
7.	Oxygen	8.4	% v/v	IS 13270 : 1992
8.	Particulate Matters	30.83	mg/Nm ³	IS : 11255 (Part I): 1985
9.	Quantity of gas flow	2515380	Nm ³ /hr	IS : 11255 (Part 3) : 2008
10.	Sulphur Dioxide as SO ₂	536.4	mg/Nm ³	IS 11255 (Part 2) : 1985
11.	Temperature of emission	118	Deg C	IS : 11255 (Part 3) : 2008
12.	Velocity	22.64	m/s	IS : 11255 (Part 3) : 2008

For Mitra S. K. Private Limited

Authorised Signatory

Prepared By

Mitra S. K. Private Limited



Above Punjab National Bank
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 E : bmdubey@mitrask.co.in
sknigam@mitrask.co.in

TEST REPORT

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

Report No. : MSKPL/ED/2022-23/TJ9468
 Date : 20.02.2023
 Sample No. : MSKNB/ED/2022-23/02/U040AW
 Sample Description : Stack Monitoring
 Date of Receipt of Sample: 13/02/2023
 Sample Mark : Thimble No.- 980 / Unit – II

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

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit – II	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	DG Capacity	:	660 MW	
7.	Load	:	509.8 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 303.5 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
Sl. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	Barometric pressure	742	mm of Hg	IS : 11255 (Part 3) : 2008
2.	Carbon Dioxide	8.6	% v/v	IS 13270 : 1992
3.	Carbon Monoxide	0.2	% v/v	IS 13270 : 1992
4.	Mercury as Hg (Gaseous)	<0.003	mg/Nm ³	USEPA 29 by CVAS: 1996
5.	Moisture content	2.8	%	IS : 11255 (Part 3) : 2008
6.	Nitrogen oxides	410.5	mg/Nm ³	IS 11255 (Part 7) : 2005
7.	Oxygen	10.4	% v/v	IS 13270 : 1992
8.	Particulate Matters	39.24	mg/Nm ³	IS : 11255 (Part I): 1985
9.	Quantity of gas flow	2493475	Nm ³ /hr	IS : 11255 (Part 3) : 2008
10.	Sulphur Dioxide as SO ₂	577.5	mg/Nm ³	IS 11255 (Part 2) : 1985
11.	Temperature of emission	114	Deg C	IS : 11255 (Part 3) : 2008
12.	Velocity	22.44	m/s	IS : 11255 (Part 3) : 2008

For Mitra S. K. Private Limited

Prepared By

Authorised Signatory

Mitra S. K. Private Limited



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 Maihar Road, NH-7, Kuthla,
 Katni – 483501 (M.P.)
 CIN: U51909WB1956PTC023037
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 E : bmdubey@mitrask.co.in
sknigam@mitrask.co.in

TEST REPORT

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

Report No. : MSKPL/ED/2022-23/2FX8AY
 Date : 30.03.2023
 Sample No. : MSKNB/ED/2022-23/03/2F44ED
 Sample Description : Stack Monitoring
 Date of Receipt of Sample: 21/03/2023
 Sample Mark : Thimble No.- 1051 / Unit – I

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

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit - I	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	DG Capacity	:	660 MW	
7.	Load	:	431.8 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 258.7 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
Sl. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	Barometric pressure	742	mm of Hg	IS : 11255 (Part 3) : 2008
2.	Carbon Dioxide	6.4	% v/v	IS 13270 : 1992
3.	Carbon Monoxide	0.2	% v/v	IS 13270 : 1992
4.	Mercury as Hg (Gaseous)	<0.003	mg/Nm ³	USEPA 29 by CVAS: 1996
5.	Moisture content	0.97	%	IS : 11255 (Part 3) : 2008
6.	Nitrogen oxides	308.7	mg/Nm ³	IS 11255 (Part 7) : 2005
7.	Oxygen	8.6	% v/v	IS 13270 : 1992
8.	Particulate Matters	34	mg/Nm ³	IS : 11255 (Part I): 1985
9.	Quantity of gas flow	2604195.14	Nm ³ /hr	IS : 11255 (Part 3) : 2008
10.	Sulphur Dioxide as SO ₂	510.6	mg/Nm ³	IS 11255 (Part 2) : 1985
11.	Temperature of emission	110	Deg C	IS : 11255 (Part 3) : 2008
12.	Velocity	22.5	m/s	IS : 11255 (Part 3) : 2008

For Mitra S. K. Private Limited

Prepared By

Authorised Signatory

Mitra S. K. Private Limited



Above Punjab National Bank
 Maihar Road, NH-7, Kuthla,
 Katni – 483501 (M.P.)
 CIN: U51909WB1956PTC023037
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sknigam@mitrask.co.in

TEST REPORT

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

Report No. : MSKPL/ED/2022-23/C4Y8AR
 Date : 30.03.2023
 Sample No. : MSKNB/ED/2022-23/03/GP44FA
 Sample Description : Stack Monitoring
 Date of Receipt of Sample: 21/03/2023
 Sample Mark : Thimble No.- 386 / Unit – II

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

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit – II	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	DG Capacity	:	660 MW	
7.	Load	:	443.5 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 266 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
SL. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	Barometric pressure	742	mm of Hg	IS : 11255 (Part 3) : 2008
2.	Carbon Dioxide	8.4	% v/v	IS 13270 : 1992
3.	Carbon Monoxide	0.2	% v/v	IS 13270 : 1992
4.	Mercury as Hg (Gaseous)	<0.003	mg/Nm ³	USEPA 29 by CVAS: 1996
5.	Moisture content	0.98	%	IS : 11255 (Part 3) : 2008
6.	Nitrogen oxides	378.5	mg/Nm ³	IS 11255 (Part 7) : 2005
7.	Oxygen	10.2	% v/v	IS 13270 : 1992
8.	Particulate Matters	34.83	mg/Nm ³	IS : 11255 (Part I): 1985
9.	Quantity of gas flow	2607361.12	Nm ³ /hr	IS : 11255 (Part 3) : 2008
10.	Sulphur Dioxide as SO ₂	503.6	mg/Nm ³	IS 11255 (Part 2) : 1985
11.	Temperature of emission	110	Deg C	IS : 11255 (Part 3) : 2008
12.	Velocity	22.63	m/s	IS : 11255 (Part 3) : 2008

For Mitra S. K. Private Limited

Prepared By

Authorised Signatory

Mitra S. K. Private Limited



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TEST REPORT

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

Report No. : MSKPL/ED/2022-23/9KB8AN
Date : 30.03.2023
Sample No. : MSKNB/ED/2022-23/03/K2450S
Sample Description : Stack Monitoring
Date of Receipt of Sample: 21/03/2023
Sample Mark : Thimble No.- 963 / Unit – III

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

ANALYSIS RESULT

A. General Information About Stack :				
1.	Stack connected to	:	Unit – III	
2.	Emission due to	:	Burning of Coal	
3.	Material of construction of Stack	:	M.S	
4.	Shape of Stack	:	Circular	
5.	Whether stack is provided with permanent platform	:	Yes	
6.	DG Capacity	:	660 MW	
7.	Load	:	497.9 (M.W)	
B. Physical Characteristics of Stack :				
1.	Height of the stack from ground level	:	275 M	
2.	Diameter of the stack at sampling point	:	7.40 M	
3.	Height of the sampling point from GL	:	80 M	
4.	Area of Stack	:	43.03 m ²	
C. Analysis / Characteristics of Stack :				
1.	Fuel used : Coal	2.	Fuel consumption : 291.9 Tons/Hr.	
D. Results of Sampling & Analysis of Gaseous Emission :				
SL. No.	PARAMETER	VALUE	UOM	METHOD OF TEST REFERENCE
1.	Barometric pressure	742	mm of Hg	IS : 11255 (Part 3) : 2008
2.	Carbon Dioxide	10.4	% v/v	IS 13270 : 1992
3.	Carbon Monoxide	0.2	% v/v	IS 13270 : 1992
4.	Mercury as Hg (Gaseous)	<0.003	mg/Nm ³	USEPA 29 by CVAS: 1996
5.	Moisture content	0.98	%	IS : 11255 (Part 3) : 2008
6.	Nitrogen oxides	411.6	mg/Nm ³	IS 11255 (Part 7) : 2005
7.	Oxygen	12.2	% v/v	IS 13270 : 1992
8.	Particulate Matters	40	mg/Nm ³	IS : 11255 (Part I): 1985
9.	Quantity of gas flow	2614673.55	Nm ³ /hr	IS : 11255 (Part 3) : 2008
10.	Sulphur Dioxide as SO ₂	566	mg/Nm ³	IS 11255 (Part 2) : 1985
11.	Temperature of emission	113	Deg C	IS : 11255 (Part 3) : 2008
12.	Velocity	22.74	m/s	IS : 11255 (Part 3) : 2008

For Mitra S. K. Private Limited

Prepared By

Authorised Signatory

Mitra S. K. Private Limited



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sknigam@mitrask.co.in

TEST REPORT

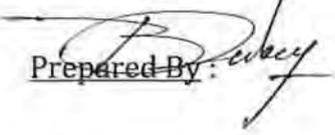
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
 Vill.: Khan Semra,
 Tehsil : Bara,
 Dist.: Prayagraj [Pin- 212107]
 Uttar Pradesh.

Report No. : MSK/KTN/2022-23/AA/494-496
Date : 03/02/2023
Sample No. : MSKGL/ED/2022-23/01/01315-01317
Date Of Sample : 03/01/2023
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

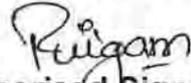
Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	Lohgara Village	87.4	47.3	6.9	58.7
2.	Bemara Village	78.7	43.7	<6.0	51.3
3.	Kapari Village	63.3	33.1	6.4	37.8
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


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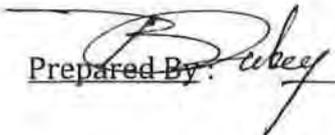
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2022-23/AA/583-586
Date : 04/03/2023
Sample No. : MSKGL/ED/2022-23/02/01797-01800
Date Of Sample : 27.02.2023
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

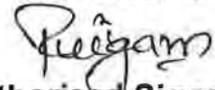
Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
1.	CHP Area	93.1	48.7	14.7	25.6
2.	Fire Station	85.4	43.5	16.9	26.4
3.	Horticulture	82.7	49.4	19.3	28.9
4.	ITI College	78.8	45.6	12.4	21.4
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


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Mitra S. K. Private Limited



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TEST REPORT

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

Report No. : MSK/KTN/2022-23/AA/533-536
Date : 03/02/2023
Sample No. : MSKGL/ED/2022-23/01/01354-01357
Date Of Sample : 26.01.2023
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

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

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	CHP Area	88.3	46.2	16.1	21.5
2.	Fire Station	84.1	43.3	18.3	28.4
3.	Horticulture	87.6	47.3	19.2	33.6
4.	ITI College	86.9	45.4	16.8	23.8
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By:

For Mitra S. K. Private Limited

Authorised Signatory

Mitra S. K. Private Limited



Above Punjab National Bank
 Maihar Road, NH-7, Kuthla,
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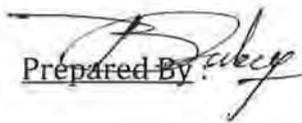
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
 Vill.: Khan Semra,
 Tehsil : Bara,
 Dist.: Prayagraj [Pin- 212107]
 Uttar Pradesh.

Report No. : MSK/KTN/2022-23/AA/537-539
Date : 03/02/2023
Sample No. : MSKGL/ED/2022-23/01/01358-01360
Date Of Sample : 27/01/2023
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

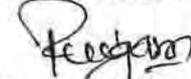
Ref. No. & Date : 9200000102. Dt -24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	Lohgara Village	85.5	48.1	11.9	22.8
2.	Bemara Village	86.2	46.5	13.7	22.7
3.	Kapari Village	88.3	49.7	15.3	25.3
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


 Authorised Signatory

Mitra S. K. Private Limited



Above Punjab National Bank
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sknigam@mitrask.co.in

TEST REPORT

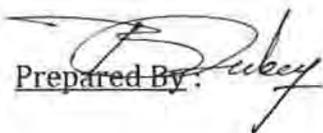
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2022-23/AA/518-521
Date : 03/02/2023
Sample No. : MSKGL/ED/2022-23/01/01339-01342
Date Of Sample : 19.01.2023
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

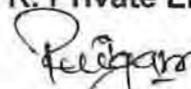
Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	CHP Area	89.6	40.6	11.6	34.1
2.	Fire Station	71.6	34.5	8.5	27.1
3.	Horticulture	70.6	37.5	9.2	24.5
4.	ITI College	85.2	48.5	9.6	29.6
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


 Authorised Signatory

Mitra S. K. Private Limited



Above Punjab National Bank
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sknigam@mitrask.co.in

TEST REPORT

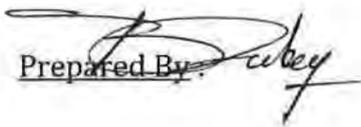
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
 Vill.: Khan Semra,
 Tehsil : Bara,
 Dist.: Prayagraj [Pin- 212107]
 Uttar Pradesh.

Report No. : MSK/KTN/2022-23/AA/587-589
Date : 04/03/2023
Sample No. : MSKGL/ED/2022-23/02/01801-01803
Date Of Sample : 28/02/2023
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

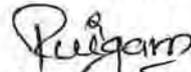
Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

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

Prepared By: 

For Mitra S. K. Private Limited


 Authorised Signatory

Mitra S. K. Private Limited



Above Punjab National Bank
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sknigam@mitrask.co.in

TEST REPORT

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

Report No. : MSK/KTN/2022-23/AA/547-550
Date : 04/03/2023
Sample No. : MSKGL/ED/2022-23/02/01761-01764
Date Of Sample : 06.02.2023
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

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

ANALYSIS RESULT

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

Prepared By:

For Mitra S. K. Private Limited

Authorised Signatory

Mitra S. K. Private Limited



Above Punjab National Bank
 Maihar Road, NH-7, Kuthla,
 Katni – 483501 (M.P.)
 CIN: U51909WB1956PTC023037
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 E : bmdubey@mitrask.co.in
sknigam@mitrask.co.in

TEST REPORT

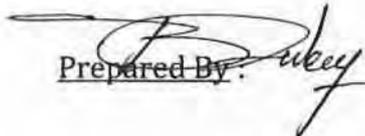
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2023-24/AA/0001-0004
Date : 03/04/2023
Sample No. : MSKGL/ED/2022-23/03/01791-01794
Date Of Sample : 02.03.2023
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

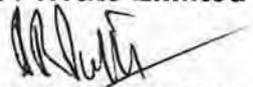
Ref. No. & Date : 9200000102, Dt-24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
1.	CHP Area	88.2	44.7	13.7	48.2
2.	Fire Station	71.6	38.5	6.7	29.8
3.	Horticulture	78.5	37.4	<6.0	21.2
4.	ITI College	91.7	41.4	9.3	34.7
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


 Authorised Signatory

Mitra S. K. Private Limited



Above Punjab National Bank
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 Katni – 483501 (M.P.)
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sknigam@mitrask.co.in

TEST REPORT

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

Report No. : MSK/KTN/2023-24/AA/0005-0007
Date : 03/04/2023
Sample No. : MSKGL/ED/2022-23/03/01795-01797
Date Of Sample : 03/03/2023
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

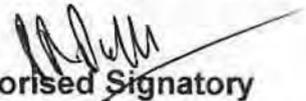
Ref. No. & Date : 9200000102. Dt -24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
1.	Lohgara Village	82.3	46.4	9.4	43.6
2.	Bemara Village	81.2	40.5	7.6	37.9
3.	Kapari Village	84.7	41.2	7.8	32.3
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By : 

For Mitra S. K. Private Limited


 Authorised Signatory

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

TEST REPORT

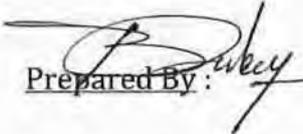
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2023-24/AA/0043-0046
Date : 03/04/2023
Sample No. : MSKGL/ED/2022-23/03/01833-01836
Date Of Sample : 27.03.2023
Sample Description : AMBIENT AIR MONITORING
(INSIDE THE PLANT)

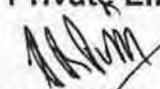
Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
1.	CHP Area	88.3	47.7	17.1	29.6
2.	Fire Station	81.3	44.5	15.1	23.4
3.	Horticulture	72.7	41.4	18.1	21.1
4.	ITI College	78.1	45.1	14.6	23.7
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


 Authorised Signatory

Mitra S. K. Private Limited



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 Maihar Road, NH-7, Kuthla,
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sknigam@mitrask.co.in

TEST REPORT

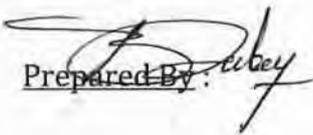
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2023-24/AA/0048-0050
Date : 03/04/2023
Sample No. : MSKGL/ED/2022-23/03/01838-01840
Date Of Sample : 28/03/2023
Sample Description : AMBIENT AIR MONITORING
(OUTSIDE THE PLANT)

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

ANALYSIS RESULT

Sl. No.	Sampling Location Name	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
1.	Lohgara Village	89.1	49.1	14.7	23.3
2.	Bemara Village	74.8	41.4	12.5	25.5
3.	Kapari Village	79.7	43.9	11.3	24.9
National Ambient Air Quality Standards		100 (24hrs)	60 (24hrs)	80 (24hrs)	80 (24hrs)

Prepared By: 

For Mitra S. K. Private Limited


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Mitra S. K. Private Limited



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 sknigam@mitrask.co.in

TEST REPORT

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

Report No. : MSK/KTN/2023-24/GDW/0003
Date : 02/04/2023
Sample No. : MSKGL/ED/2022-23/03/01843
Date Of Sample : 20/03/2023
Sample Description : Ground Drinking Water
Sample Mark : HP-3 JORVAT VILLAGE

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

ANALYSIS RESULT

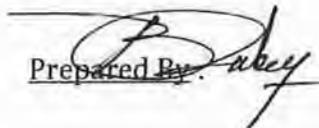
SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	207	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	91	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	176	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
12.	Fluoride (as F)	0.82	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
13.	Free Residual Chlorine	<0.01	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
15.	Iron (as Fe)	0.29	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
17.	Magnesium (as Mg)	21	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nitrate (as NO ₃)	19	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO3-E, 2017

Mitra S. K. Private Limited



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sknigam@mitrask.co.in

Sl. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
23	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Sulphate (as SO ₄)	171	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
26.	Total Hardness (as CaCO ₃)	297	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
28.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
29.	Total coliform bacteria	28		NA	MPN/100 ml	IS 1622 : 1981 (RA 2019)
30.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
33.	Total Dissolved Solids (as TDS)	645	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	7	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	7.52 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B

Prepared By: 

For Mitra S. K. Private Limited


 Authorised Signatory

Mitra S. K. Private Limited



Above Punjab National Bank
 Maihar Road, NH-7, Kuthla,
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 E : bmdubey@mitrask.co.in
 sknigam@mitrask.co.in

TEST REPORT

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

Report No. : MSK/KTN/2023-24/GDW/0002
Date : 02/04/2023
Sample No. : MSKGL/ED/2022-23/03/01842
Date Of Sample : 20/03/2023
Sample Description : Ground Drinking Water
Sample Mark : HP-2, Kapari Panchayat Bhawan

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

ANALYSIS RESULT

Sl. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	167	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	45	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	79	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
12.	Fluoride (as F)	0.22	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
13.	Free Residual Chlorine	<0.01	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
15.	Iron (as Fe)	0.29	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
17.	Magnesium (as Mg)	23	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nitrate (as NO ₃)	27	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO3-E, 2017

Mitra S. K. Private Limited



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sknigam@mitrask.co.in

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
23	Phenolic Compounds (as C6H5OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Sulphate (as SO ₄)	44	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
26.	Total Hardness (as CaCO ₃)	134	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
28.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
29.	Total coliform bacteria	22		NA	MPN/100 ml	IS 1622 : 1981 (RA 2019)
30.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
33.	Total Dissolved Solids (as TDS)	298	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	<1.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	7.21 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B

Prepared By:

For Mitra S. K. Private Limited

Authorised Signatory

Mitra S. K. Private Limited



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 Katni – 483501 (M.P.)
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 E : bmdubey@mitrask.co.in
sknigam@mitrask.co.in

TEST REPORT

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

Report No. : MSK/KTN/2022-23/GDW/128
Date : 27/02/2023
Sample No. : MSKGL/ED/2022-23/02/01814
Date Of Sample : 10/02/2023
Sample Description : Ground Drinking Water
Sample Mark : HP-3, Jorvat Village

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	222	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	111	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	212	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
12.	Fluoride (as F)	0.99	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
13.	Free Residual Chlorine	<0.01	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
15.	Iron (as Fe)	0.29	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
17.	Magnesium (as Mg)	29	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nitrate (as NO ₃)	12	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO3-E, 2017

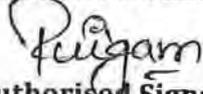
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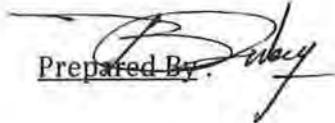


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sknigam@mitrask.co.in

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
23	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Sulphate (as SO ₄)	199	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
26.	Total Hardness (as CaCO ₃)	331	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
28.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
29.	Total coliform bacteria	32		NA	MPN/100 ml	IS 1622 : 1981 (RA 2019)
30.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
33.	Total Dissolved Solids (as TDS)	667	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	6	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	7.21 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B

For Mitra S. K. Private Limited


 Authorised Signatory

Prepared By: 

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TEST REPORT

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

Report No. : MSK/KTN/2022-23/GDW/127
Date : 27/02/2023
Sample No. : MSKGL/ED/2022-23/02/01813
Date Of Sample : 10/02/2023
Sample Description : Ground Drinking Water
Sample Mark : HP-2, Kapari Panchayat Bhawan

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

ANALYSIS RESULT

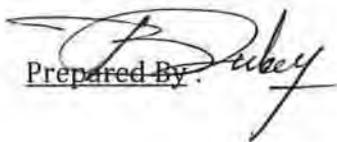
Sl. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	143	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	39	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	62	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
12.	Fluoride (as F)	0.32	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
13.	Free Residual Chlorine	<0.01	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
15.	Iron (as Fe)	0.26	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
17.	Magnesium (as Mg)	14	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nitrate (as NO ₃)	31	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO3-E, 2017

Mitra S. K. Private Limited

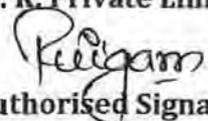


Above Punjab National Bank
 Maihar Road, NH-7, Kuthla,
 Katni – 483501 (M.P.)
 CIN: U51909WB1956PTC023037
 T : 07622 – 240651, 240919
 E : bmdubey@mitrask.co.in
sknigam@mitrask.co.in

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
23	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Sulphate (as SO ₄)	47	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
26.	Total Hardness (as CaCO ₃)	119	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
28.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
29.	Total coliform bacteria	17		NA	MPN/100 ml	IS 1622 : 1981 (RA 2019)
30.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
33.	Total Dissolved Solids (as TDS)	276	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	<1.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	7.09 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B

Prepared By: 

For Mitra S. K. Private Limited


 Authorised Signatory

Mitra S. K. Private Limited



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

TEST REPORT

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

Report No. : MSK/KTN/2022-23/GDW/116
Date : 30/01/2023
Sample No. : MSKGL/ED/2022-23/01/01370
Date Of Sample : 14/01/2023
Sample Description : Ground Drinking Water
Sample Mark : HP-2, Kapari Panchayat Bhawan

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	110	200	600	mg/l	APHA (23rd Edition) 2320B 2017
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
08.	Calcium (as Ca)	32	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017
09.	Chloride (as Cl)	58	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
11.	Cyanide (as CN)	<0.01	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017
12.	Fluoride (as F)	0.23	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017
13.	Free Residual Chlorine	<0.01	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B
15.	Iron (as Fe)	0.18	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
17.	Magnesium (as Mg)	5.9	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
22.	Nitrate (as NO ₃)	21	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO3-E, 2017

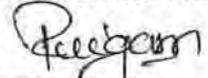
Mitra S. K. Private Limited

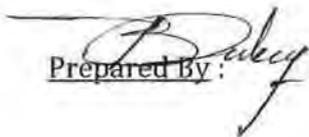


Above Punjab National Bank
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 E : bmdubey@mitrask.co.in
sknigam@mitrask.co.in

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
23	Phenolic Compounds (as C ₆ H ₅ OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017
25.	Sulphate (as SO ₄)	7.8	200	400	mg/l	APHA (23rd Edition) 4500-SO ₄ E 2017
26.	Total Hardness (as CaCO ₃)	102	200	600	mg/l	APHA (23rd Edition) 2340 C 2017
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017
28.	E.coli	Not Detected		NA	/100ml	IS 1622 : 1981 (RA 2019)
29.	Total coliform bacteria	12		NA	MPN/100 ml	IS 1622 : 1981 (RA 2019)
30.	Colour	<1.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B
32.	Taste	Not Done			None	IS 3025 (Part 8)-1983 Rffm:2012
33.	Total Dissolved Solids (as TDS)	202	500	2000	mg/l	APHA (23rd Edition) 2540C
34.	Turbidity	<1.0	1	5	N.T.U.	APHA (23rd Edition) 2130B
35.	pH	6.98 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B

For Mitra S. K. Private Limited


 Authorised Signatory


 Prepared By:

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate
3, Pagladanga Road, Kolkata 700015
West Bengal
Tel : +91 7044036120
Email: udayanlab@mitrask.com



TC-6950



Scan for Portal

ULR: TC-695023000002221F

TEST REPORT

Name & Address of Customer :

Prayagraj Power Generation Company Ltd

Vill : Khan Semra,
Tehsil : Bara,
Dist : Prayagraj Uttar Pradesh India Pin 212107

Report No. :

MSKPLE/ED/2022-23/GF48AY

Date :

30/03/2023

Sample No. :

MSKNB/ED/2022-23/03/S64504

Date of receipt of sample:

21/03/2023

Date(s) of performance:

21/03/2023 - 30/03/2023

Location of performance of

Permanent Facility

Reference No. & Date :

920000102, Date - 24/05/2021

Discipline:

Chemical

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

1. Group	Atmospheric Pollution
2. Description of sample	Ambient Air
3. Unique Identification of sample(if any)	NA
4. Date of sampling	16/03/2023
5. Place of sampling	HORTICULTURE AREA
6. Environmental conditions during sampling & Transport	1) Temperature 25-26 deg C 2) Barometric Pressure 762 mm of Hg 3) Rain fall No & Cold Chain Maintained
7. Sampling Plan & Method used	IS
8. Identification of the personnel performing sampling by MSK	RAMESH KUMAR NISHAD
9. Field Equipments Used	MSK/KTE/RDS - 03, MSK/KTE/FDS - 03

Report No. : MSKPLE/ED/2022-23/GF48AY

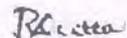
Sample No. : MSKNB/ED/2022-23/03/S64504

RESULT

Sl No.	Parameter	UOM	Method	Limit	Result
1	Ammonia (as NH ₃)	micro gm/m ³	TPM/MSK/ENV(AP)/01/8 Issue no- 01 Issue Dated April 02 : 2018	400 (24 Hours)	42.7
2	Arsenic as (As)	ng/m ³	TPM/MSK/ENV(AP)/01/15 2018	6 (Annual)	<1.0
3	Benzene	micro gm/m ³	IS 5182 (Part 11) : 2006	5 (Annual)	<4.2
4	Benzo(a)Pyrene	ng/m ³	IS 5182 (Part 12) : 2004	1 (Annual)	<0.5
5	Carbon monoxide (as CO)	mg/m ³	IS 5182 (Part 10) (NDIR) 1999	2 (8 Hours)	0.41
6	Lead (as Pb)	micro gm/m ³	USEPA-IO 3.4 by ICP-OES, June 1999	1 (24 Hours)	<0.01
7	Mercury (as Hg)	micro gm/m ³	USEPA-IO5.0, June: 1999	Not Specified	<0.002
8	Nickel as Ni	ng/m ³	USEPA-IO 3.4 by ICP-OES, June 1999	20 (Annual)	<5.0
9	Nitrogen Dioxide as (NO ₂)	micro gm/m ³	IS 5182 (Part 6): 2006	80 (24 Hours)	35.9
10	Ozone (as O ₃)	micro gm/m ³	IS 5182 (Part 9): 1974	180 (1 Hours)	25.2
11	PM ₁₀ (Particulate Matter < 10 µm)/Respirable Suspended Particulate Matter Cyclonic technique	micro gm/m ³	IS 5182 (Part 23): 2006	100 (24 Hours)	79.2
12	PM _{2.5} (Particulate Matter < 2.5 µm)	micro gm/m ³	TPM/MSK/ENV(AP)/01/03 Issue no- 01 Issue Date April 02: 2018	60 (24 Hours)	41.0

Reviewed By

Signature



Name: Ms. Pautam Datta

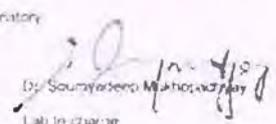
Designation: Sr Executive QA

Authorized Signatory

Signature

Name:

Designation:


 Dr. Sourabhendra Mishra
Lab In charge

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate,
3, Pagladanga Road, Kolkata 700015
West Bengal
Tel. : +91 7044036120
Email: udayanlab@mitrask.com



TC-6960



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ULR: TC-695023000002221F

Report No. : MSKPL/ED/2022-23/GF48AY

Sample No. : MSKNB/ED/2022-23/03/S64504

RESULT

Chemical					
SI No.	Parameter	UOM	Method	Limit	Result
13	Sulphur Dioxide as (SO ₂)	micro gm/m ³	IS 5182 (Part 2) : 2001	80 (24 Hours)	7.0

Opinion : Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality

Statement of Conformity NA

----- END -----

Reviewed By:

Signature

Name Ms. Paulami Dutta

Designation Sr Executive QA

Authorized Signatory

Signature

Name Dr. Sandhya Bhowmik

Designation Lab In-charge

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

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

*The reserved part of sample(s) for chemical analysis (Non - perishable sample(s) Food, Water) shall be retained for 15 days from the date of issue of the Test Report. Perishable sample(s) shall be retained 2 days from the date of issue of the Test Report.

*The reserved part of sample(s) for chemical analysis (Soil, Solid & Liquid Waste) shall be retained for 15 days as per CPCB guideline & (Air) 1 month from the date of issue of the Test Report.

*The reserved part of sample(s) for Microbiological analysis (Non - perishable sample(s) Food, Sealed Water, Sealed food) shall be retained for 15 days from the date of issue of the Test Report.

Head Office: Shree Centre (5th Floor), 74B, A.J.C. Bose Road, Kolkata - 700016, West Bengal, India
Tel : 91 33 40143000 / 22650007 Fax : 91 33 22650008
Email : info@mitrask.com Website : www.mitrask.com

Address of Laboratory :

Building No P- 48, Udayan Industrial Estate,
3, Pagladanga Road, Kolkata 700015
West Bengal
Tel : +91 7044036120
Email udayanlab@mitrask.com



TC-6950



Scan for Portal

ULR: TC-695023000002225F

TEST REPORT

Name & Address of Customer :

Prayagraj Power Generation Company Ltd

Vill.: Khan Semra,
Tehsil - Bara,
Dist : Prayagraj Uttar Pradesh India Pin 212107

Report No. :

MSKPL/ED/2022-23/30Q8AJ

Date :

30/03/2023

Sample No. :

MSKNB/ED/2022-23/03/YG4531

Date of receipt of sample:

21/03/2023

Date(s) of performance:

21/03/2023 - 30/03/2023

Location of performance of

Permanent Facility

Reference No. & Date :

920000102, Date - 24/05/2021

Discipline:

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Atmospheric Pollution
2. Description of sample	Ambient Air 17-03-23
3. Unique Identification of sample(if any)	NA
4. Date of sampling	16/03/2023
5. Place of sampling	KAPARI VILLAGE
6. Environmental conditions during sampling & Transport	1) Temperature :20-22 deg C 2) Barometric Pressure: 760 mm of Hg 3) Rain fall : No & Cold Chain Maintained
7. Sampling Plan & Method used	IS
8. Identification of the personnel performing sampling by MSK	RAMESH KUMAR NISHAD
9. Field Equipments Used	MSK/KTE/RDS - 01, MSK/KTE/FDS - 01

Report No. : MSKPL/ED/2022-23/30Q8AJ

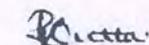
Sample No. : MSKNB/ED/2022-23/03/YG4531

RESULT

SI No.	Parameter	UOM	Method	Limit	Result
1	Ammonia (as NH ₃)	micro gm/m ³	TPM/MSK/ENV(AP)/01/8 Issue no- 01 Issue Dated. April 02, 2018	400 (24 Hours)	47.5
2	Arsenic as (As)	ng/m ³	TPM/MSK/ENV(AP)/01/15 2018	6 (Annual)	<1.0
3	Benzene	micro gm/m ³	IS 5182 (Part 11) : 2006	5 (Annual)	<4.2
4	Benzof(a)Pyrene	ng/m ³	IS 5182 (Part 12) : 2004	1 (Annual)	<0.5
5	Carbon monoxide (as CO)	mg/m ³	IS 5182 (Part 10) (NDIR): 1999	2 (8 Hours)	0.18
6	Lead (as Pb)	micro gm/m ³	USEPA-IO 3.4 by ICP-OES, June: 1999	1 (24 Hours)	<0.01
7	Mercury (as Hg)	micro gm/m ³	USEPA-IO5 0. June: 1999	Not Specified	<0.002
8	Nickel as Ni	ng/m ³	USEPA-IO 3.4 by ICP-OES, June: 1999	20 (Annual)	<5.0
9	Nitrogen Dioxide as (NO ₂)	micro gm/m ³	IS 5182 (Part 6): 2006	80 (24 Hours)	31.6
10	Ozone (as O ₃)	micro gm/m ³	IS 5182 (Part 9) 1974	180 (1 Hours)	23.5
11	PM10 (Particulate Matter < 10 µm)/Respirable Suspended Particulate Matter Cyclonic technique	micro gm/m ³	IS 5182 (Part 23): 2006	100 (24 Hours)	72.7
12	PM2.5 (Particulate Matter < 2.5 µm)	micro gm/m ³	TPM/MSK/ENV(AP)/01/03 Issue no- 01 Issue Date April 02, 2018	60 (24 Hours)	40.4

Reviewed By

Signature



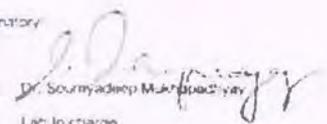
Name Ms. Paulami Dutta

Designation Sr. Executive QA

Authorized Signatory

Signature

Name



Designation Lab In charge



Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate,
3, Pagladanga Road, Kolkata 700015
West Bengal
Tel. : +91 7044036120
Email: udayanlab@mitrask.com



TC-6950



Scan for Portal

ULR: TC-695023000002225F

Report No. : MSKPL/ED/2022-23/30Q8AJ

Sample No. : MSKNB/ED/2022-23/03/YG4531

RESULT

Chemical					
Sl No.	Parameter	UOM	Method	Limit	Result
13	Sulphur Dioxide as (SO ₂)	micro gm/m ³	IS 5182 (Part 2) : 2001	80 (24 Hours)	6.9

Opinion : Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality

Statement of Conformity NA

----- END -----

Reviewed By

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

Authorized Signatory

Signature:
Name: Bodhyadeep Anand
Designation: Lab In-charge

*The results relate only to the item(s) tested.
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*The reserved part of sample(s) for chemical analysis (Non - perishable sample(s) Food, Water) shall be retained for 15 days from the date of issue of the Test Report. Perishable sample(s) shall be retained 2 days from the date of issue of the Test Report.
*The reserved part of sample(s) for chemical analysis (Soil, Solid & Liquid Waste) shall be retained for 15 days as per CPCB guideline & (Air) 1 month from the date of issue of the Test Report.
*The reserved part of sample(s) for Microbiological analysis (Non - perishable sample(s) Food, Sealed Water, Sealed food) shall be retained for 15 days from the date of issue of the Test Report.

TRUE COPY

PPGCL/ENV/FY23/184

Date: 14.09.2022

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

Subject: Environment Statement in Form V for the financial year 2021-2022.

Dear Sir,

Please find enclosed the Environment Statement report for the period April-21 to March-22 (FY 21-22) for M/s Prayagraj Power Generation Company Limited, Bara.

This is for your kind information and record please.

Yours Sincerely,

For Prayagraj Power Generation Company Limited


S H Pandey

Chief-O&M Services

Encl: Environment Statement (Form V) for FY 21-22

Cc: The Regional Officer

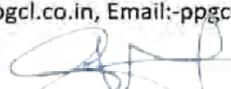
U.P. Pollution Control Board, Prayagraj



Prayagraj Power Generation Company Limited

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

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


TRUE COPY

Environment Statement for the Financial Year ending 31st March 2022

PART-A

- (i) Name and Address of the Owner/Occupier of the industry or process : Mr. Brajesh Singh
Prayagraj Power Generation Company Limited
Vill. - Lohgara, Tehsil- Bara
Distt – Prayagraj, Uttar Pradesh
Pin- 212107
- (ii) Industry Category : Large
- (iii) Production Capacity : 3x660 MW (Electric Thermal Power Plant)
- (iv) Year of establishment : Unit-1: 2016
Unit-2: 2016
Unit-3: 2017
- (v) Date of last Environment Statement submitted : 27.09.2021

PART-B

Water and Raw Material Consumption

- (1) Water Consumption (m³/day)
Current Year (2021-2022)
Process : 64790.6
Domestic : 1573.4

Name of Product	Water consumption per unit of product output (m ³ /MWh)	
	During the previous financial year 2020-2021	During the current financial year 2021-2022
Electricity	2.11	2.03

- (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 2020-2021	During the current financial year 2021-2022
Coal	Electricity	593.83	619.07
HSD	Electricity	0.33	0.25

- (3) Electricity Generation (MUs)

Name of Product	During the previous financial year 2020-2021	During the current financial year 2021-2022
Electricity	10751.08	11654.94

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

(Parameters as specified in consent issued)

Pollutants	Quantity of pollutants discharged (T/day)	Concentration of pollutants in discharged (mass/volume) Mg/Nm ³	Percentage of variation from prescribed standards with reasons
Water	-	-	Treated process wastewater is recycled within system. Treatment domestic effluent is used in horticulture.
Air (1)PM (2)SO ₂ (3)NO _x	7.3 118.1 54.1	37.9 611.4 279.8	-

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 2020-2021	During the current financial year 2021-2022
From Process	Cat-5.1: 15.12 kL	Cat-5.1: 40.4 kL
From Pollution Control facilities	Nil	Nil

PART-E**Solid Waste**

Solid Waste	Total Quantity (MT/Annunum)	
	During the previous financial year 2020-2021	During the current financial year 2021-2022
A. From Process	Nil	Nil
B. From Pollution Control facilities (Ash)	2002185	2419356
C. 1. Quantity recycled or reutilized within the unit 2. Sold 3. Recycled/Utilized	<ul style="list-style-type: none"> The Fly ash is utilized in – Cement industry, for ash-based products, Low lying area and mines backfilling. Total quantity utilized in FY 21-2007902 MT 	<ul style="list-style-type: none"> The Fly ash is utilized in – Cement industry, for ash-based products like fly ash brick, Low lying and abandoned mine backfilling and Ash dyke raising.

		<ul style="list-style-type: none"> Total quantity utilized in FY 22-2107528.77 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 - 40.4 kL) generated at site was sent to authorized recycler for recycling.
- Solid Waste: Fly Ash was utilized in Cement, Brick, Filling of low-lying area and backfilling of abandoned mines and ash dyke raising.

PART-G

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

- Installation of ETP for the treatment of industrial effluent.
- Installation of STP for the treatment of Domestic effluent.
- Installation of Ash water recovery system has been implemented.

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

PART-H

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

- For the control of Air pollution ESP, one twin Flue stack of 275-meter height, dust extraction and dust suppression system has been installed.
- Online monitoring system has already been installed in stack to monitor SO₂, NO_x, and particulate matter.
- CAAQMS (Continuous Ambient Air Quality Monitoring System) for online ambient air monitoring has been installed.
- For the control of Water pollution ETP & STP has been installed for the treatment of Industrial and domestic effluent. Also, ash water recovery system has been established.
- Coal pile run off pit constructed.
- Green belt has been developed in and around plant premises. The species which have been planted are- Neem, Sisam, Arjun, Pipal, Banyan, Karanj, Kaner, Gulmohar, Siris, Jamun, and Bamboo. During FY 22, we have planted 25000 saplings. Till March 22 we have planted approx 3.13 lakh saplings.
- We also have developed "Miyawaki Forest" in 5650 m² area with plantation of local species.
- Environment monitoring carried out by NABL accredited laboratory.
- Dust suppression system has been installed in coal yard area. Fogging system installed at wagon tippler.

- We have installed solar streetlights, solar based garden lights and roof top solar of 204 kW at our school building.
- 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.
- Turbo ventilators have been installed in the store and mechanical workshop.
- We have constructed rainwater harvesting ponds in the plant premises.

PART-I

Any other particulars for improving the quality of the environment.

- (i) Green Belt developed in and around the factory premises. Additional plantation is also being done.
- (ii) Good housekeeping is being maintained in and around the power plant.
- (iii) Treated effluent being recycled within the system.
- (iv) Started use of renewal energy sources and installed roof top solar.



Green belt development

PPGCL/ENV/FY23/392

Date: 28.03.2023

To,

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

Subject: Form 10 Manifest for Hazardous and Other Waste under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

Dear Sir,

With reference to the above mentioned subject, please find enclosed the form 10 Manifest for Hazardous and Other Waste.

This is for your kind information and record please.

Thanking You,

Sincerely,

For Prayagraj Power Generation Company Limited



S H Pandey
Chief (O&M) Services

Enclosure: Form - 10 Manifest for Hazardous and Other waste

Cc: The Regional Officer

U.P Pollution Control Board, Prayagraj

Handwritten signature and date: 20/04/2023
Circular stamp: प्रयागराज शहरीय कार्यालय
प्रदूषण नियंत्रण बोर्ड
प्रयागराज

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

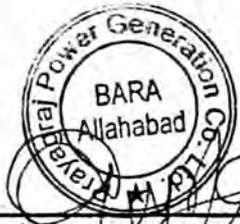
Plant Address : P.O. - Lohgara, Tehsil Bara, Prayagraj (Allahabad), Uttar Pradesh - 212107
Phone: + 91-7525006400/ 8528846666. Web:-ppgcl.co.in. Email:-ppgcl@ppgcl.co.in


TRUE COPY

FORM 10

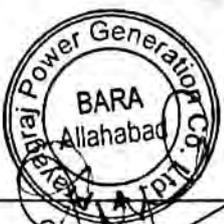
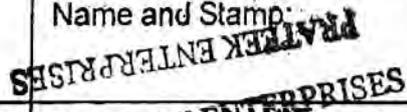
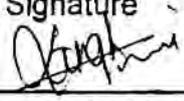
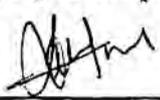
[See rules 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail)	Prayagraj Power Generation Co. Ltd. Bara, Prayagraj (Uttar Pradesh)
2.	Sender's authorisation No.	14929/UPTCB/Allahabad/HWA/Allahabad/202
3.	Manifest Document No.	PPGCL/HW/MAR/2023/12
4.	Transporter's name and address : (including Phone No. and e-mail)	M/S Prateek Enterprises Chharibana, Tilakhawara, Kaschama Prayagraj
5.	Type of Vehicle	(Truck/Tanker/Special Vehicle)
6.	Transporter's Registration No.	13820/UPTCB/Allahabad(UPTCBRO)/HW/Allahabad/2021
7.	Vehicle Registration No.	UP 70 KT 4149
8.	Receiver's name and mailing address (including Phone No. and E-mail)	M/S Prateek Enterprises Chharibana Tilakhawara, Kaschama Prayagraj
9.	Receiver's authorisation No.	13820/UPTCB/Allahabad(UPTCBRO)/HW/Allahabad/2021
10.	Waste description	Batteries
11.	Total quantity No. of Containersm ³ of MT55..... Nos.
12.	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13.	Special handling instructions and additional information	To be handled carefully
14.	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labeled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and Stamp:  Signature: _____ Month: _____ Day: _____ Year: _____	03 15 2023
15.	Transporter acknowledgement of receipt of Wastes	
	Name and Stamp: PRATEEK ENTERPRISES Signature: _____ Month: _____ Day: _____ Year: _____	03 15 2023
16.	Receiver's certification for receipt of hazardous and other waste	
	Name and Stamp: PRATEEK ENTERPRISES Signature: _____ Month: _____ Day: _____ Year: _____	03 15 2023

FORM 10
[See rules 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail)	Prayagraj Power Generation Co. Ltd. Bara, Prayagraj (ppgcl@ppgcl.com)				
2.	Sender's authorisation No.	14929/UPPCB/Allahabad/HWM/Allahabad				
3.	Manifest Document No.	PPGCL/HW/MAR/2023/13				
4.	Transporter's name and address : (including Phone No. and e-mail)	M/S Prateek Enterprises Chhosibana Tilakhwara, Kaschana, Prayagraj				
5.	Type of Vehicle	(Truck/Tanker/Special Vehicle)				
6.	Transporter's Registration No.	13820/UPPCB/Allahabad (UPPBR)				
7.	Vehicle Registration No.	UP 70 DZ 6758				
8.	Receiver's name and mailing address (including Phone No. and E-mail)	M/S Prateek Enterprises Chhosibana Tilakhwara, Kaschana, Prayagraj				
9.	Receiver's authorisation No.	13820/UPPCB/Allahabad (UPPBR)				
10.	Waste description	Batteries				
11.	Total quantity No. of Containersm ³ of MT15..... Nos.				
12.	Physical form	(Solid/Semi- Solid/Sludge/Oily/Tarry/Slurry/Liquid)				
13.	Special handling instructions and additional information	To be handled carefully				
14.	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.				
	Name and Stamp:	Signature	Month	Day	Year	
						
			03	22	2023	
15.	Transporter acknowledgement of receipt of Hazardous Wastes	Name and Stamp:	Signature	Month	Day	Year
						
				03	22	2023
16.	Receiver's certification for receipt of hazardous and other waste	Name and Stamp:	Signature	Month	Day	Year
		Partne				
				03	22	2023

Form-10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's Name & Mailing Address (Including Phone No. & e-mail)	Prayagraj Power Generation Co. Ltd. Bara, Prayagraj (ppgcl @ ppgcl.com)					
2.	Sender's Authorisation No.	14929/UPPB/Allahabad(UPPCBRO)/HW/M/Alla					
3.	Manifest Document No.	PPGCL/HW/MAR/2023/14					
4.	Transporter's Name & Address (Including Phone No. and e-mail)	Venus Oil Corporation E-53, Site-3, Panki Industrial Area Kanpur (U.P.)					
5.	Type of Vehicle :	Truck <input type="checkbox"/> Tanker <input type="checkbox"/> Special Vehicle <input checked="" type="checkbox"/>					
6.	Transporter's Registration No. :	self					
7.	Vehicle Registration No. :	UP 78 GT 3372					
8.	Receiver's Name & Mailing Address (Including Phone No. and e-mail)	Venus Oil Corporation E-53, Site-3, Panki Industrial Area Kanpur (U.P.)					
9.	Receiver's Authorisation No.	6958/UPPB/Kanpur Nagar/UPPBRO Kanpur Nagar/2018 DRO 2-03-18					
10.	Waste Description	5.1 - used oil					
11.	Total Quantity: No. of Container's:6.2.....KL.....CuM or MTNos.					
12.	Physical Form	Solid <input type="checkbox"/> Semi-Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Oily <input type="checkbox"/> Tarry <input type="checkbox"/> Slurry <input type="checkbox"/> Liquid <input checked="" type="checkbox"/>					
13.	Special Handling Instructions and Additional Information.	As per above					
14.	Transport Description of Wastes	I hereby declare that the contents of the consignment are fully and accurately described above proper shipping name and are categorized, packed, marked and labeled and are in the respects in proper conditions for transport by road according to applicable national government regulations.					
15.	Name & Stamp : VENUS OIL CORPORATION	Proprietor Signature		Month	Day	Year	
				03	23	20	23
15.	Name & Stamp : VENUS OIL CORPORATION	Transporter's Acknowledgment of Receipt of Wastes		Month	Day	Year	
				03	23	20	23
16.	Name & Stamp : VENUS OIL CORPORATION	Receiver's Certification for receipt of harardous & other Waste		Month	Day	Year	
				03	23	20	23

Copy 1 of 7

To be forwarded by the sender to the UPPR

TRUE COPY

Mitra S. K. Private Limited



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

TEST REPORT

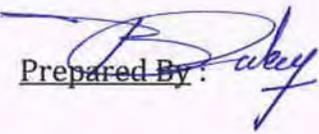
Name & Address of the Customer :
Prayagraj Power Generation Company Ltd.
Vill.: Khan Semra,
Tehsil : Bara,
Dist.: Prayagraj [Pin- 212107]
Uttar Pradesh.

Report No. : MSK/KTN/2023-24/NOISE/0001
Date : 03/04/2023
Sample No. : MSKGL/ED/2022-23/03/01849
Date Of Sample : 27/03/2023
Sample Description : NOISE MONITORING

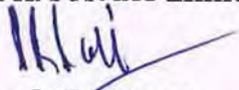
Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

SL. No.	Location	Date Of Monitoring	Type Of Area	Results in Leq dB(A) Day Time	Results in Leq dB(A) Night Time
1.	TURBINE AREA	27.03.2023	INSIDE PLANT	71.6	67.1

Prepared By: 

For Mitra S. K. Private Limited


Authorised Signatory

Page 1 of 1

Mitra S. K. Private Limited



Above Punjab National Bank
 Maihar Road, NH-7, Kuthla,
 Katni – 483501 (M.P.)
 CIN: U51909WB1956PTC023037
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 E : bmdubey@mitrask.co.in
sknigam@mitrask.co.in

TEST REPORT

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

Report No. : MSK/KTN/2023-24/APW/0008
Date : 03/04/2023
Sample No. : MSKGL/ED/2022-23/03/01102
Date Of Sample : 20/03/2023
Sample Description : Ash Pond Water
Sample Mark : Ash Dyke

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

ANALYSIS RESULT

Sl. No.	Parameter	UOM	Result	Method
1.	Oil and Grease	mg/l	<5.0	APHA (23rd Edition) 5520B 2017
2.	Total Suspended Solid (as TSS)	mg/l	14	APHA(23rd Edition)2540D
3.	pH value	None	7.87 at 25 deg C	APHA(23rd Edition) 4500-H-B

Prepared By :

For Mitra S. K. Private Limited

Authorised Signatory

TRUE COPY

Mitra S. K. Private Limited



Above Punjab National Bank
 Maihar Road, NH-7, Kuthla,
 Katni – 483501 (M.P.)
 CIN: U51909WB1956PTC023037
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 E : bmdubey@mitrask.co.in
sknigam@mitrask.co.in

TEST REPORT

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

Report No. : MSK/KTN/2023-24/APW/0008
Date : 03/04/2023
Sample No. : MSKGL/ED/2022-23/03/01102
Date Of Sample : 20/03/2023
Sample Description : Ash Pond Water
Sample Mark : Ash Dyke

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

Sl. No.	Parameter	UOM	Result	Method
1.	Copper (as Cu)	mg/l	<0.02	APHA (23rd Edition)3120B 2017 (ICP OES)
2.	Lead (as Pb)	mg/l	<0.005	APHA (23rd Edition)3120B 2017
3.	Mercury (as Hg)	mg/l	<0.001	IS 3025(Part 48)-1994; Rffm:2014
4.	Nickel (as Ni)	mg/l	<0.02	APHA (23rd Edition)3120B 2017
5.	Arsenic(as As)	mg/l	<0.005	APHA (23rd Edition)3120B 2017 (ICP OES)

For Mitra S. K. Private Limited

Authorised Signatory

Prepared By:

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



Environment Expenditure during FY 22 – 23

Sl. No	Particular	Amount in Lakh
1	Environment monitoring	24.56
2	Green belt development	80.33
3	Online monitoring system	35.10
4	Solid waste management	32.70
5	Water sprinkling tanker	1.41
6	Biodiversity study	7.00
	Total	181.10



का सं. / SL. NO. 497 A 49623

बिआपीबी / बीएआरसी वाशी कॉम्प्लेक्स,
BRIT/ BARC Vashi Complex,
सेक्टर-20, वाशी / Sec-20, Vashi,
नवी मुंबई / Navi Mumbai-400 703
www.britatom.gov.in

TC-6665

सामयिक प्रमाण

भारत सरकार / GOVERNMENT OF INDIA

परमाणु ऊर्जा विभाग / DEPARTMENT OF ATOMIC ENERGY

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

रेडियोसक्रियता परीक्षण प्रमाण-पत्र / RADIOACTIVITY TEST CERTIFICATE

PAGE 1 OF 1

RADIOANALYTICAL LABORATORY

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

NOV 24, 2020

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

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

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

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

Date of receipt of sample : 24.10.2020

Date of completion of test : 17.11.2020

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

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

checked by:

Authorized Signatory

24-11-20

अजय एन. ठमके / Ajay N. Thamke

वैज्ञानिक अधिकारी / Scientific Officer

रेडियोवैश्लेषक प्रयोगशाला / Radioanalytical Laboratory

विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

Board of Radiation & Isotope Technology

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

नवी मुंबई / Navi Mumbai-400 703.

****End of Report****

Mitra S. K. Private Limited



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

TEST REPORT

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

Report No. : MSK/KTN/2022-23/FAW/0006
Date : 02/01/2023
Sample No. MSKGL/ED/2022-23/12/01112
Date Of Sample : 12/12/2022
Sample Description : FLY ASH SAMPLE
Sample Mark : Flyash (White Sample)

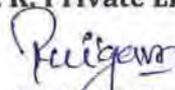
Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

SL. No.	Parameter	UOM	Result	Method
1.	Aluminum Oxide (as Al ₂ O ₃)	mg/kg	18316	EPA 6010D_(O)
2.	Arsenic as As (TCLP)	None	<0.02 mg/l	EPA 1311: 1992
3.	Barium as Ba (TCLP)	None	2.1 mg/l	EPA 1311: 1992
4.	Cadmium as Cd (TCLP)	None	<0.1 mg/l	EPA 1311: 1992
5.	Calcium Oxide (as CaO)	mg/kg	3244	TPM/MSK/ P&E /2/24_(O)
6.	Chloride (as Cl)	mg/kg	70	TPM/MSK/ P&E /2/25_(O)
7.	Cobalt as Co (TCLP)	None	<0.1 mg/l	EPA 1311_(O)
8.	Copper as Cu (TCLP)	None	<0.1 mg/l	EPA 1311: 1992
9.	Fluoride (TCLP)	None	0.66 mg/l	EPA 1311_(O)
10.	Iron Oxide (as Fe ₂ O ₃)	mg/kg	33593	TPM/MSK/ P&E /2/31_(O)
11.	Iron as Fe (TCLP)	None	2.8 mg/l	EPA 1311_(O)
12.	Lead as Pb (TCLP)	None	<0.1 mg/l	EPA 1311: 1992
13.	Loss on ignition	%	0.11	TPM/MSK/P&E/2/4_(O)
14.	Magnesium Oxide (as MgO)	mg/kg	1754	TPM/MSK/ P&E /2/26_(O)
15.	Manganese as Mn (TCLP)	None	0.22 mg/l	EPA 1311_(O)
16.	Mercury as Hg (TCLP)	None	<0.5 mg/l	EPA 1311: 1992
17.	Moisture content	%	5.2	TPM/MSK/ P&E /2/28_(O)

Prepared By: 

For Mitra S. K. Private Limited


 Authorised Signatory

Mitra S. K. Private Limited



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

TEST REPORT**Name & Address of the Customer :****Prayagraj Power Generation Company Ltd.**

Vill.: Khan Semra,

Tehsil : Bara,

Dist.: Prayagraj [Pin- 212107]

Uttar Pradesh.

Report No. : MSK/KTN/2022-23/FAW/0006

Date : 02/01/2023

Sample No. MSKGL/ED/2022-23/12/01112

Date Of Sample : 12/12/2022

Sample Description : FLY ASH SAMPLE

Sample Mark : Flyash (White Sample)

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

Sl. No.	Parameter	UOM	Result	Method
18.	Nickel as Ni (TCLP)	None	<0.1 mg/l	EPA 1311: 1992
19.	P2O5	mg/kg	2748	TPM/MSK/ P&E /2/32_(O)
20.	Permeability	%	2.4 Cm/hr	IS 2720 (Part 17)-1986; Rffm:2011_(O)
21.	Pottasium Oxide (as K2O)	mg/kg	910	TPM/MSK/ P&E /2/27_(O)
22.	Silicon Dioxide (as SiO2)	%	42	TPM/MSK/ P&E /2/60_(O)
23.	Sodium Oxide (as Na2O)	mg/kg	307	TPM/MSK/ P&E /2/27_(O)
24.	Specific gravity	None	2.11	IS 2720 (Part-3)-1980; Rffm:2011_(O)
25.	Sulphate as SO3	mg/kg	1316	TPM/MSK/P&E/2/37_(O)
26.	Titanium Oxide (as TiO2)	mg/kg	<4.0	EPA 6010D_(O)
27.	Total Chromium as Cr (TCLP)	None	<0.1 mg/l	EPA 1311: 1992
28.	Zinc as Zn (TCLP)	None	0.34 mg/l	EPA 1311: 1992
29.	Particle Size (10 - 50)	None	0.1%	TPM/MSK/ P&E /5/01_(O)
30.	Particle Size (100 - 150 micron)	None	3.3%	TPM/MSK/ P&E /5/01_(O)
31.	Particle Size (50 - 75)	None	3.1%	TPM/MSK/ P&E /5/01_(O)
32.	Particle Size (75 - 100)	None	2.0%	TPM/MSK/ P&E /5/01_(O)
33.	Particle Size (<10)	None	1.5%	TPM/MSK/ P&E /5/01_(O)
34.	Particle Size (>150)	None	90%	TPM/MSK/ P&E /5/01_(O)

Prepared By :

For Mitra S. K. Private Limited

Authorised Signatory

Mitra S. K. Private Limited



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

TEST REPORT

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

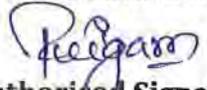
Report No. : MSK/KTN/2022-23/FAW/0007
Date : 02/01/2023
Sample No. MSKGL/ED/2022-23/12/01113
Date Of Sample : 12/12/2022
Sample Description : FLY ASH SAMPLE
Sample Mark : Bottom Ash (Black Sample)

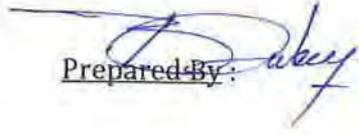
Ref. No. & Date : 9200000102, Dt -24/05/2021.

ANALYSIS RESULT

Sl. No.	Parameter	UOM	Result	Method
1.	Aluminum Oxide (as Al ₂ O ₃)	mg/kg	3051	EPA 6010D_(O)
2.	Arsenic as As (TCLP)	None	<0.02 mg/l	EPA 1311: 1992
3.	Barium as Ba (TCLP)	None	6.4 mg/l	EPA 1311: 1992
4.	Cadmium as Cd (TCLP)	None	<0.1 mg/l	EPA 1311: 1992
5.	Calcium Oxide (as CaO)	mg/kg	1601	TPM/MSK/ P&E /2/24_(O)
6.	Chloride (as Cl)	mg/kg	110	TPM/MSK/ P&E /2/25_(O)
7.	Cobalt as Co (TCLP)	None	<0.1 mg/l	EPA 1311_(O)
8.	Copper as Cu (TCLP)	None	<0.1 mg/l	EPA 1311: 1992
9.	Fluoride (TCLP)	None	0.24 mg/l	EPA 1311_(O)
10.	Iron Oxide (as Fe ₂ O ₃)	mg/kg	41590	TPM/MSK/ P&E /2/31_(O)
11.	Iron as Fe (TCLP)	None	0.98 mg/l	EPA 1311_(O)
12.	Lead as Pb (TCLP)	None	0.18 mg/l	EPA 1311: 1992
13.	Loss on ignition	%	0.9	TPM/MSK/P&E/2/4_(O)
14.	Magnesium Oxide (as MgO)	mg/kg	747	TPM/MSK/ P&E /2/26_(O)
15.	Manganese as Mn (TCLP)	None	<0.1 mg/l	EPA 1311_(O)
16.	Mercury as Hg (TCLP)	None	<0.5 mg/l	EPA 1311: 1992
17.	Moisture content	%	23	TPM/MSK/ P&E /2/28_(O)

For Mitra S. K. Private Limited


 Authorised Signatory

Prepared By: 

Mitra S. K. Private Limited



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

TEST REPORT

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

Report No. : MSK/KTN/2022-23/FAW/0007
Date : 02/01/2023
Sample No. MSKGL/ED/2022-23/12/01113
Date Of Sample : 12/12/2022
Sample Description : FLY ASH SAMPLE
Sample Mark : Bottom Ash (Black Sample)

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

ANALYSIS RESULT

Sl. No.	Parameter	UOM	Result	Method
18.	Nickel as Ni (TCLP)	None	<0.1 mg/l	EPA 1311: 1992
19.	P2O5	mg/kg	1145	TPM/MSK/ P&E /2/32_(O)
20.	Permeability	%	22 cm/hrs	IS 2720 (Part 17)-1986; Rffm:2011_(O)
21.	Pottasium Oxide (as K2O)	mg/kg	235	TPM/MSK/ P&E /2/27_(O)
22.	Silicon Dioxide (as SiO2)	%	44	TPM/MSK/ P&E /2/60_(O)
23.	Sodium Oxide (as Na2O)	mg/kg	384	TPM/MSK/ P&E /2/27_(O)
24.	Specific gravity	None	2.46	IS 2720 (Part-3)-1980; Rffm:2011_(O)
25.	Sulphate as SO3	mg/kg	661	TPM/MSK/P&E/2/37_(O)
26.	Titanium Oxide (as TiO2)	mg/kg	<4.0	EPA 6010D_(O)
27.	Total Chromium as Cr (TCLP)	None	<0.1 mg/l	EPA 1311: 1992
28.	Zinc as Zn (TCLP)	None	0.20 mg/l	EPA 1311: 1992
29.	Particle Size (10 - 50)	None	66%	TPM/MSK/ P&E /5/01_(O)
30.	Particle Size (100 - 150 micron)	None	0.9%	TPM/MSK/ P&E /5/01_(O)
31.	Particle Size (50 - 75)	None	1.3%	TPM/MSK/ P&E /5/01_(O)
32.	Particle Size (75 - 100)	None	0.6%	TPM/MSK/ P&E /5/01_(O)
33.	Particle Size (<10)	None	30%	TPM/MSK/ P&E /5/01_(O)
34.	Particle Size (>150)	None	1.2%	TPM/MSK/ P&E /5/01_(O)

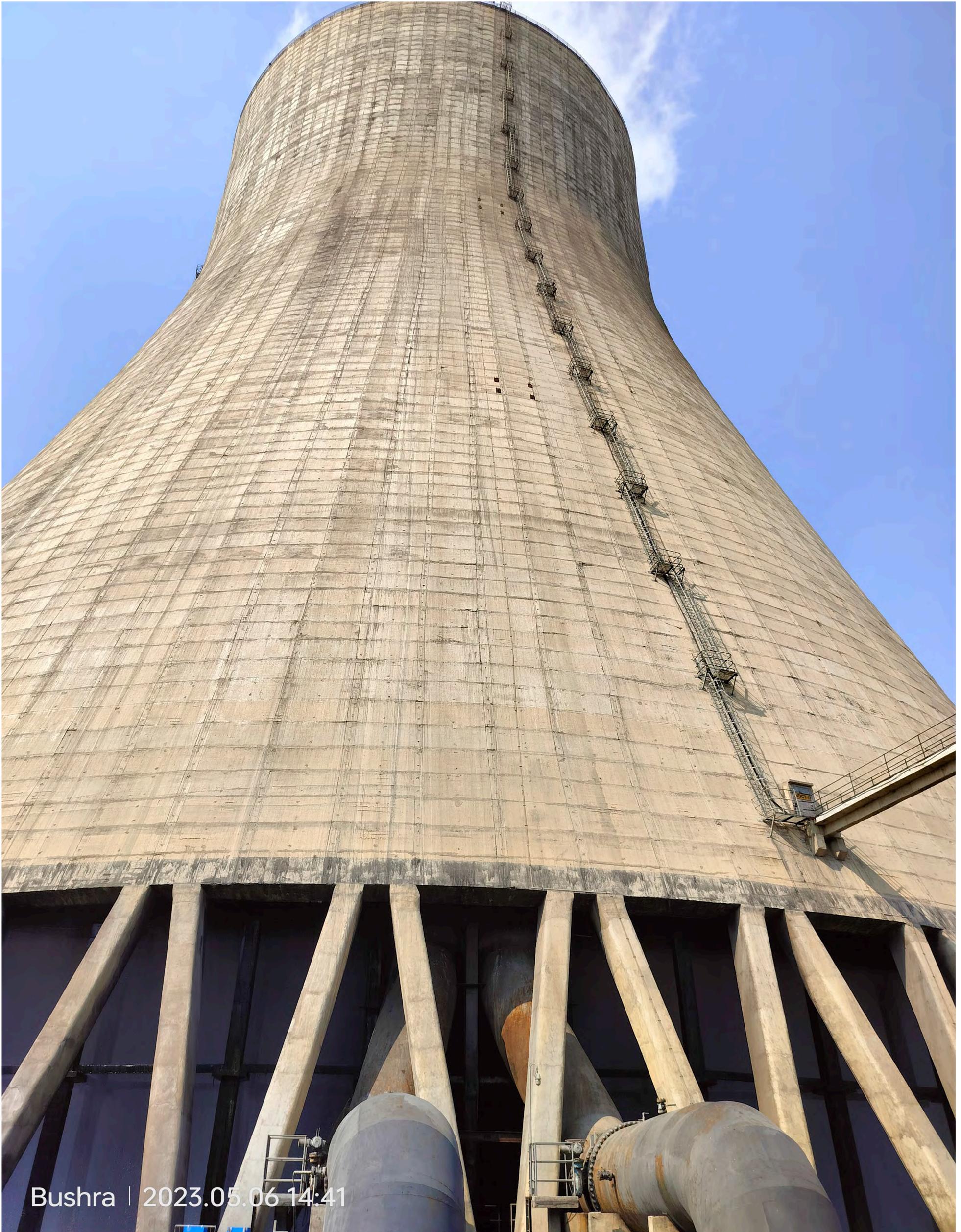
For Mitra S. K. Private Limited


 Authorised Signatory

Prepared By: 

Page 2 of 2


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ANNEXURE R4/19

PPGCL

PRAYAGRAJ POWER GENERATION COMPANY LTD.

ENVIRONMENT POLICY

PPGCL reaffirms its commitment to a clean, safe and healthy environment and shall operate its facility in an environmentally sensitive and responsible manner.

To achieve the above, it shall:

- Comply and exceed all applicable Environmental Legislation (s)
- Conserve natural resources by improving operational efficiency, reducing wastage(s), preventing pollution, and rational and sustainable use of water and other resources.
- Proactively anticipate risk and opportunities and make its business decisions that aim towards Sustained Environmental Performance
- Consider environmental factors while selecting supply chain partners.
- Integrate the conservation, protection and promotion of biodiversity with the principle of achieving "No net loss of biodiversity".
- Integrate Environmentally sound technologies and best practices for Continual Improvement in Environmental Performance by institutionalizing a robust Environment Management System
- Inculcate Environmental Consciousness amongst all its stakeholders
- Communicate this policy to all stakeholders by suitable means and periodically review its relevance and effectiveness in continuously changing business environment.
- Periodically review this policy for applicability, relevance, effectiveness and congruence with the continuously evolving business environment but not lesser than once in three years.

R2

Date: 1st April 2023

Chief Executive Officer


TRUE COPY

1040











Registered Post

PPGCL/BARA/MOEF/14/05 | 3482
Date 09.05.2014

Regional Office (Central Region)
Ministry of Environment & Forest
Kendriya Bhawan, 5TH Floor
Sector – H, Aliganj, Lucknow -226024

Kind Attn.: Dr Miss Satya, Dy. Director- MOEF

Subject: Six monthly compliance reports for the period of October 2013 to March 2014 of the Environmental Clearance (EC) granted by MOEF vide letter no J-13011/60/2008-IA.II (T) dated 8th Sept. 2009 to M/s Prayagraj Power Generation Company Limited.

D/Sir,

This has reference to the Environmental Clearance (EC) granted by MOEF to us vide letter no J-13011/60 / 2008-IA.II (T) dated 8th Sept. 2009 and subsequent letter no IV/ENV/P/THE/39/311/2009/1173 dtd 16.11.2011 regarding additional conditions in respect of 3x 660 MW Thermal Power Project.

In compliance to the condition no. xxviii of the environmental clearance & additional conditions, six monthly report on the status of EC compliance of the conditions stipulated therein is submitted herewith for your kind information. This report is also being sent by e-mail as advised.

Thanking you

Yours Faithfully

For Prayagraj Power Generation Co Ltd.


(Girish Kumar)

Sr. General Manager – Environment

Copy to

1. The Director (Thermal Projects) - for information
Paryavaran Bhawan,
CGO, Complex, Lodi Road, New Delhi – 110003
2. The Chairman - for information
Central Pollution Control Board
Parivesh Bhawan, CBD –cum-Office Complex
East Arjun Nagar, Delhi -110032
3. The Chairman - for information
Uttar Pradesh Pollution Control Board
H.No. TC -12 V
Vibhuti Khand, Gomati Nagar, Lucknow-226010

<p>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.</p>	<p>Shall be complied with.</p> <p>Fire protection system for plant inter-alia includes measure to check / minimize spontaneous fires in coal yard. Brief details with plant lay out is enclosed as Annexure No "B" for your ready references.</p>
<p>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.</p>	<p>Storage facilities for auxiliary liquid fuel such as LDO/HFO/LSHS are being developed in consultation / approval with Dept of Explosive, Nagpur.</p> <p>Disaster Management Plan will be submitted before starting the operation of plant.</p>
<p>Regular monitoring of ground water in and around ash pond area including heavy metals (Hg, Cr, As, Pb) shall be carried out, records maintained and six monthly reports shall be furnished to the Regional Office of this Ministry. The data so obtained should be compared with the base line data so as to ensure that the ground water quality is not adversely affected due to project.</p>	<p>Will be complied with.</p> <p>Monitoring will be initiated after ash disposal starts in ash pond.</p> <p>10 no of underground water samples of surrounding area of plant for physio- chemical parameters & heavy metals have been analyzed through Indian Institute of Toxicology Research, Lucknow for the period of pre - monsoon season (June 2013).</p> <p>The monitoring data shall be compared when plant becomes operational. However the extract of 10 no of ground water quality analysis report for the pre-monsoon season is already submitted along with six monthly compliances status for period of April 2013 to Sept 2013 vide letter no PPGCL/NOIDA/MOEF/13/11 dated 14.11.2013</p>
<p>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.</p>	<p>Will be complied with.</p> <p>We are in the process to develop the green belt. Till date we have planted 1, 23,170 no's saplings.</p> <p>Green belt is being implemented simultaneously in phased manner along with completion /commissioning of thermal plant.</p>

**A detail of Fire Protection Measures
(To check / minimise spontaneous fires)
at coal handling area of PPGCL**

**(3X 660 MW THERMAL POWER PROJECT)
M/S PRAYAGRAJ POWER GENERATION CO
LTD. BARA, DIST-ALLAHABAD**

Prayagraj Power Generation Company Limited
Bara, Dist – Allahabad

Fire protection measures at coal handling area (to check /minimise spontaneous fires) of PPGCL.

A comprehensive fire detection and protection is envisaged for the complete power plant including spontaneous fire in coal of coal yard. This system shall be as per the recommendation of Tariff Adviser Committee (TAC) , India / IS: 3034 & NFPA -850 and will provide in-depth capability for early detection, containment and suppression of fire. The fire protection system for the coal handling area of plant of will consists of:

1. Hydrant system for complete power plant covering main plant building, boiler area, turbine and its auxiliaries, coal handling plant. All pump houses and miscellaneous building of the plant. The system shall be complete with piping, valves, instrumentation, hoses, nozzles, hose boxes etc.
2. Fire hydrants would be provided at all tunnel entry points, junction towers and bunker gallery and along the overhead conveyors.
3. Fire hydrants would also be placed along the periphery of the coal stockpile for fire fighting.
4. Automatic medium velocity water spray system for coal galleries, transfer points and crusher house consisting of QB detectors, nozzles etc.
5. For protection of control room, equipment room, computer room and electrical and electronic rooms fire extinguishers would provide.

6. Portable and mobile extinguishers such as pressurised water type, CO2 type, foam type, dry type will be located at strategic locations.
7. Required fire tenders of water type, foam type, DCP type shall be provided in fire station.
8. Complete instrumentation and control system for the entire fire detection and protection system shall be provided for safe operation of the complete system.

The layout of fire protection system for the coal handling area of plant is attached here with in annexure no 1.

Besides the above, PPGCL has already been developed a dedicated fire fighting wing with fully equipped trained Fire Men, two no's of fire tenders having water & foam facilities and all fire related equipments. The details especially related to check / minimise the spontaneous fire in coal yard are as follows:-

Fire facilities at Coal handling area including coal stock yard, junction house & wagon tippler.

1. The following safety measures to check / minimize spontaneous fires in coal yard will be adopted.

S.No	Locations	Fire Equipments	Quantity	Details of fire equipments
1.	Coal Stock yard, Junction Tower	Hydrant Valve	50- Nos	Internal Riser will be provided in JNT-1 Spray system will be provided for coal conveyor 07A/B, 06A/B, 04A/B, coal handling system transformer Internal riser will be provided in JNT-4 , JNT-5
		Water Monitor	30-Nos	
2.	Coal handling plant, wagon tippler	Hydrant valve	03 Nos	

2. Detail of Fire Pump House station

Location		Equipments	Specifications	Quantity
Fire Pump House	Hydrant water pumps	Motor driven	Design capacity-410 m ³ /Hr Total Bowl Head (Mtrs) -110.5 Mtr Motor rating – 180 Kw	03 working
		Diesel Engine driven	Design capacity-410 m ³ /Hr Total Bowl Head (Mtrs) -110.5 Mtr Engine rating – 313 HP	01 stand by
	Spray water pumps	Motor driven	Design capacity-410 m ³ /Hr Total Bowl Head (Mtrs) -110.5 Mtr Motor rating – 180 Kw	01 working
		Diesel Engine driven	Design capacity-410 m ³ /Hr Total Bowl Head (Mtrs) -110.5 Mtr Diesel rating – 313 hp	01 stand by
	Jockey Pumps	Motor driven	Design capacity-50 m ³ /Hr Total Bowl Head (Mtrs) -110.7 Mtr Motor rating – 30 Kw	02 working
	Booster Pumps	Motor driven	Design capacity-410 m ³ /Hr Total Bowl Head (Mtrs) -110.5 Mtr Motor rating – 180 Kw	01 working
		Diesel Engine driven	Design capacity-410 m ³ /Hr Total Bowl Head (Mtrs) -110.5 Mtr Diesel rating – 313 hp	01 stand by

3. Details of Fire Detection & Alarm System

Particulars	Details
Fire detection system & Alarm system	<ul style="list-style-type: none">- Main fire alarm panel shall be provided in CCR- Basic detection is done through multi sensor detector.- Detection in cable gallery is done through LHS Cable.
Repeater panel	<ul style="list-style-type: none">- Repeater panel will be provided at 4 locations
IR detector	<ul style="list-style-type: none">- IR detector will be provided in conveyors
Siren	<ul style="list-style-type: none">- Siren will be provided above TG Building

DETAILS OF FIRE TENDERS

Sl. No.	Description	Quantity (Nos.)
1.	Fire Tender with 5000 Ltr. water and 500 Ltrs. Foam Tank.	02
2.	Water Browser with 12000 Ltr. And other auxiliaries	01
3.	Hose Reel with 50 mtr. Rubber Hose (Low Pressure)	02
4.	Hose Reel with 60 mtr. Rubber Hose (High Pressure)	02
5.	Search light with 35 mtr. Lead	02
6.	Monitor	02
7.	4 Nos. CO ₂ Extinguisher Cap. 22.5 Kg. Each fitted right side 2, left side 2 with 17 mtr. Hose Reel	08
Accessories		
1.	Hose Canvas 15/30 mtr.	15
2.	Branch Pipe 2 way	04
3.	Nozzle	09
4.	Spray Nozzle (Diffuser)	02
5.	Double Female Clamp	02
6.	Foam Maker 10x	04
7.	Foam Compound	80 ltr.
8.	Rope Manila	80 mtr.
9.	Suction Hose	08
10.	Metal Steiner	02
11.	Male To Male adopter	04
12.	Dividing Breeching	02
13.	Nozzle of Branch Different Dia	08
14.	Collecting head male to suction	02
15.	Fire Proof Asbestos suit	04
16.	Gum Boot	04
17.	Hammer	02
18.	Suction Key	04
19.	Spade	02
20.	Branch Nozzle Spanner	02
21.	Oil Pump	01
22.	Breathing Apparatus (BA Sets)	04
23.	Aluminium Extension Ladders	02

Besides the available two no's of fire tenders and one no of water browser , Bronto Sky left (aerials fire fighting application up to 112m working height) is under procurement. Before starting the plant operation, both will be available at site for use.

Details of locations of fire extinguishers in plant areas

S.No	Locations	Type	Quantity	Remarks
1	HFO/LDO Tank farm	9 lit Foam portable Extinguisher	06	
2		50lit Mobile Foam Extinguisher	02	
3	Day TANK farm	9 lit Foam portable Extinguisher	02	
4		50lit Mobile Foam Extinguisher	01	
5	Unloading and transfer pump house	9 lit Foam portable Extinguisher	02	
6	Boiler Building EL -4.70	6 kg DCP Portable Extinguisher	03	
7	Boiler Building EL -11.40	6 kg DCP Portable Extinguisher	03	
8	Boiler Building EL -14.50	6 kg DCP Portable Extinguisher	03	
9	Boiler Building EL -17.35	6 kg DCP Portable Extinguisher	03	
10	Boiler Building EL -24.90	6 kg DCP Portable Extinguisher	03	
11	Boiler Building EL -28.70	6 kg DCP Portable Extinguisher	03	
12	Boiler Building EL -32.80	6 kg DCP Portable Extinguisher	03	
13	Boiler Building EL -36.60	6 kg DCP Portable Extinguisher	03	
14	Boiler Building EL -43.20	6 kg DCP Portable Extinguisher	03	
15	Boiler Building EL -48.80	6 kg DCP Portable Extinguisher	03	
16	Boiler Building EL -64.60	6 kg DCP Portable Extinguisher	03	
17	Boiler Building EL -72.50	6 kg DCP Portable Extinguisher	03	
18	Boiler Building EL -80.80	6 kg DCP Portable Extinguisher	03	
19	Switch Yard	6 kg DCP Portable Extinguisher	02	
		9 kg DCP Portable Extinguisher	04	
20	Switch Yard Control Room	4.5 kg CO2 portable Extinguisher	02	
21	Transformer Yard Unit-1	6 kg DCP Portable Extinguisher	03	
		9 kg DCP Portable Extinguisher	03	
22	HT & LT Switch gear room	9 kg DCP Portable Extinguisher	01	
		4.5 kg CO2 portable Extinguisher	04	
23	Battery room, battery charger room , UPS room	9 kg DCP Portable Extinguisher	01	
		4.5 kg CO2 portable Extinguisher	01	
24	Central equipment room (CER)	9 kg DCP Portable Extinguisher	01	
		4.5 kg CO2 portable Extinguisher	04	
28	Central Control Room (CCR)	9 kg DCP Portable Extinguisher	01	
		4.5 kg CO2 portable Extinguisher	04	
29	CABLE Vault 0.00 M EL	6 kg DCP Portable Extinguisher	02	
		4.5 kg CO2 portable Extinguisher	02	
30	CABLE Vault 4.00M EL	6 kg DCP Portable Extinguisher	02	
		4.5 kg CO2 portable Extinguisher	02	
31	CABLE Vault 8.50 M EL	6 kg DCP Portable Extinguisher	02	
		4.5 kg CO2 portable Extinguisher	02	
32	CABLE Vault 11.50 M EL	6 kg DCP Portable Extinguisher	02	
		4.5 kg CO2 portable Extinguisher	02	
33	Fire pump house	9 lit Foam Portable Extinguisher	01	



TEST REPORT

Test Report No. : IGI/BBSR/TR/2022/BH055053 ULR-TC676622000011377F

Page 1 of 3

DATE: 29.12.2022

Chemical Testing

Solid Fuels

Job No. :	BH055053		
*NAME & ADDRESS OF CUSTOMER :	M/S PRAYAGRAJ POWER GENERATION COMPANY LTD. POST-LOHAGARA, TEHSIL- BARA, DIST- PRAYAGRAJ (U.P), PIN CODE-		
*CUSTOMERS REFERENCE : (POST/COURIER/FAX/E-MAIL)	W.O. NO- 6000000852 (LETTER- DT- 06.11.2022)	DATE: 18.04.2022	
SAMPLE PARTICULARS : (MATERIAL TO BE TESTED)	Coal		
SAMPLE RECEIPT DATE :	20.12.2022		
NO OF SAMPLE(S) :	1		
SAMPLE DESCRIPTION :	SAMPLE RECEIVED FROM CUST- M/S. PRAYAGRAJ POWER GENERATION COMPANY LTD.		
CONDITION OF SAMPLE :	POWDER (01 X 200 GMS)		
*PARAMETERS TESTED :	Carbon, Hydrogen, Nitrogen, Oxygen (by difference), Total Sulfur, Moisture in Analysis Sample (IM), Volatile Matter, Ash, Fixed Carbon, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , TiO ₂ , CaO, MgO, MnO, P ₂ O ₅ , Na ₂ O, K ₂ O, Gross Calorific Value		
TEST METHOD : (ASTM / IS / ISO / OTHERS)	C, H, N - ASTM D5373 - 21 Ultimate Analysis (Oxygen) - ASTM D 3176 -15 total Sulphur - ASTM D 4239 - 18e1 Moisture in Analysis Sample (IM) - IS 1350 (Part 1) :1984 Volatile Matter - IS 1350 (Part 1):1984 Ash -IS 1350 (Part 1) : 1984	Fixed Carbon- IS 1350 (Part 1) : 1984 Ash Analysis - ASTM D 6349 (ICP OES)- 2021 GCV - IS 1350 (Part-2):2022	

TEST RESULTS

Analysis Commencement Date: 20.12.2022		Analysis Completion Date: 27.12.2022							
		TEST PARAMETERS							
SAMPLE REF/ID	SAMPLE	Carbon	Hydrogen	Nitrogen	Oxygen (by difference)	Total Sulfur	Moisture in Analysis Sample (IM)	Volatile Matter	Ash
(Customer)	CODE (Laboratory)	% (adb)	% (adb)	% (adb)	% (adb)	% (adb)	% (adb)	% (adb)	% (adb)
SAMPLE ID- PPGCL/CHEM/COAL/NOV- 22	3426149	40.8	3.94	0.75	15.473	0.367	5.659	24.694	38.680

REMARKS:

(Proximate , GCV , Ultimate) tested on air dry basis (adb) & Ash analysis tested after preparing the ash of coal. Submitted by the party.

*Indicates information supplied by the customer for which the laboratory has no control.

Enclosures ()



PREPARED BY

Sridhar Panda
 SRIDHAR PANDA

Pankaj Choudhury

PANKAJ CHOUDHURY
 (DEPUTY TECHNICAL MANAGER)
 AUTHORISED SIGNATORY

SAMPLING NOT DONE BY THE LABORATORY. RESULTS RELATE TO THE SAMPLE TESTED ONLY
 THE CONTENTS OF THE REPORT SHALL NOT BE REPRODUCED EITHER IN FULL OR IN PART WITHOUT PRIOR WRITTEN CONSENT OF THE ISSUING AUTHORITY

Regd. Office : Ecocentre, 16th Floor, Unit 1601, Block-EM04, Salt Lake, Sector-V, Kolkata 700 091, India, CIN : U74200WB1993PTC059064

IGI/QR 5.10.1, Issue#01, Rev#05 All services are rendered in accordance with General terms & Conditions - Inspectorate Griffith India available on request at www.bureauveritas.co.in/general-terms-and-conditions-service

DATE: 30/12/2022

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TEST REPORT CONTINUATION SHEET

Test Report No. : IGI/BBSR/TR/2022/BH055053 ULR-TC676622000011377F

Page 2 of 3

DATE: 29.12.2022

Chemical Testing

Solid Fuels

TEST RESULTS

Analysis Commencement Date: 20.12.2022		Analysis Completion Date: 27.12.2022							
		TEST PARAMETERS							
SAMPLE REF/ID (Customer)	SAMPLE CODE (Laboratory)	Fixed Carbon % (adb)	SiO ₂ % (ar)	Al ₂ O ₃ % (ar)	Fe ₂ O ₃ % (ar)	TiO ₂ % (ar)	CaO % (ar)	MgO % (ar)	MnO % (ar)
SAMPLE ID- PPGCL/CHEM/COAL/NOV- 22	3426149	30.967	66.29	24.54	5.23	1.368	0.38	0.41	0.090

TEST RESULTS

Analysis Commencement Date: 20.12.2022		Analysis Completion Date: 27.12.2022							
		TEST PARAMETERS							
SAMPLE REF/ID (Customer)	SAMPLE CODE (Laboratory)	P ₂ O ₅ % (ar)	Na ₂ O % (ar)	K ₂ O % (ar)	Gross Calorific Value kcal/kg (adb)				
SAMPLE ID- PPGCL/CHEM/COAL/NOV- 22	3426149	0.069	0.131	0.855	4053				

REMARKS:

(Proximate , GCV , Ultimate) tested on air dry basis (adb) & Ash analysis tested after preparing the ash of coal. Submitted by the party.

*Indicates information supplied by the customer for which the laboratory has no control.

Enclosures ()



PREPARED BY

SRIDHAR PANDA

PANKAJ CHOUDHURY
(DEPUTY TECHNICAL MANAGER)

AUTHORISED SIGNATORY

SAMPLING NOT DONE BY THE LABORATORY. RESULTS RELATE TO THE SAMPLE TESTED ONLY
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TEST REPORT CONTINUATION SHEET

Test Report No. : IGI/BBSR/TR/2022/BH055053/1

Page 3 of 3

DATE: 29.12.2022

Chemical Testing

Solid Fuels

*PARAMETERS TESTED : SO3

TEST METHOD :
(ASTM / IS / ISO / OTHERS)

Ash Analysis - ASTM D 6349 (ICP OES)-2021

TEST RESULTS									
Analysis Commencement Date: 20.12.2022			Analysis Completion Date: 27.12.2022						
SAMPLE REF/ID (Customer)		SAMPLE CODE (Laboratory)	SO3 % (ar)						
SAMPLE ID- PPGCL/CHEM/COAL/NOV- 22		3426149	0.022						

REMARKS:

(Proximate , GCV , Ultimate) tested on air dry basis (adb) & Ash analysis tested after preparing the ash of coal. Submitted by the party.

*Indicates information supplied by the customer for which the laboratory has no control.
Enclosures ()

PREPARED BY

SRIDHAR PANDA

PANKAJ CHOUDHURY
(DEPUTY TECHNICAL MANAGER)

AUTHORISED SIGNATORY

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TEST REPORT

Test Report No.: IGI/BBSR/TR/2023/BH055729 ULR-TC67662300000451F

Page 1 of 3

DATE: 11.01.2023

Chemical Testing

Solid Fuels

Job No. :	BH055729
*NAME & ADDRESS OF CUSTOMER :	M/S PRAYAGRAJ POWER GENERATION COMPANY LTD. POST-LOHAGARA, TEHSIL- BARA, DIST- PRAYAGRAJ (U.P), PIN CODE-
*CUSTOMERS REFERENCE : (POST/COURIER/FAX/E-MAIL)	W.O. NO- 6000000997 (LETTER- DT- 05.01.2023) DATE: 16.08.2022
SAMPLE PARTICULARS : (MATERIAL TO BE TESTED)	Coal
SAMPLE RECEIPT DATE :	09.01.2023
NO. OF SAMPLE(S) :	1
SAMPLE DESCRIPTION :	SAMPLE RECEIVED FROM CUST- M/S. PRAYAGRAJ POWER GENERATION COMPANY LTD.
CONDITION OF SAMPLE :	POWDER (01 X 200 GMS)
*PARAMETERS TESTED :	Carbon, Hydrogen, Nitrogen, Oxygen (by difference), Total Sulfur, Moisture in Analysis Sample (IM), Volatile Matter, Ash, Fixed Carbon, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , TiO ₂ , CaO, MgO, MnO, P ₂ O ₅ , Na ₂ O, K ₂ O, Gross Calorific Value
TEST METHOD : (ASTM / IS / ISO / OTHERS)	Ultimate Analysis (Carbon, Hydrogen and Nitrogen) - ASTM D5373 - 21 Fixed Carbon- IS 1350 (Part 1) : 1984 Ultimate Analysis (Oxygen) - ASTM D 3176 -15 Ash Analysis - ASTM D 6349 (ICP OES)- 2021 total Sulphur - ASTM D 4239 - 18e1 GCV - IS 1350 (Part-2):2022 Moisture in Analysis Sample (IM) - IS 1350 (Part 1) :1984 Volatile Matter - IS 1350 (Part 1):1984 Ash -IS 1350 (Part 1) : 1984

TEST RESULTS

Analysis Commencement Date: 09.01.2023		Analysis Completion Date: 10.01.2023								
SAMPLE REF/ID (Customer)	SAMPLE CODE (Laboratory)	TEST PARAMETERS								
		Carbon	Hydrogen	Nitrogen	Oxygen (by difference)	Total Sulfur	Moisture in Analysis Sample (IM)	Volatile Matter	Ash	
		% (adb)	% (adb)	% (adb)	% (adb)	% (adb)	% (adb)	% (adb)	% (adb)	% (adb)
SAMPLE ID- PPGCL/CHEM/COAL/DEC-22	3448827	42.1	3.60	0.77	16.429	0.324	5.753	24.856	36.800	

REMARKS:

Ash analysis tested after preparing the ash of coal & (Proximate , Ultimate & GCV) tested on air dry basis (adb).Submitted by the party

*Indicates information supplied by the customer for which the laboratory has no control.
Enclosures ()



PREPARED BY

RASHMI RANJAN SAHOO

PANKAJ CHOUDHURY
(DEPUTY TECHNICAL MANAGER)

AUTHORISED SIGNATORY

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DATE: 16.01.2023 072255



TEST REPORT CONTINUATION SHEET

Test Report No. :

IGI/BBSR/TR/2023/BH055729

ULR-TC67662300000451F

Page 2 of 3

DATE: 11.01.2023

Chemical Testing

Solid Fuels

TEST RESULTS

Analysis Commencement Date: 09.01.2023		Analysis Completion Date: 10.01.2023							
		TEST PARAMETERS							
SAMPLE REF/ID (Customer)	SAMPLE CODE (Laboratory)	Fixed Carbon % (adb)	SiO2 % (ar)	Al2O3 % (ar)	Fe2O3 % (ar)	TiO2 % (ar)	CaO % (ar)	MgO % (ar)	MnO % (ar)
SAMPLE ID- PPGCL/CHEM/COAL/DEC-22	3448827	32.591	66.24	24.08	6.00	1.468	0.25	0.36	0.077

TEST RESULTS

Analysis Commencement Date: 09.01.2023		Analysis Completion Date: 10.01.2023							
		TEST PARAMETERS							
SAMPLE REF/ID (Customer)	SAMPLE CODE (Laboratory)	P2O5 % (ar)	Na2O % (ar)	K2O % (ar)	Gross Calorific Value kcal/kg (adb)				
SAMPLE ID- PPGCL/CHEM/COAL/DEC-22	3448827	0.069	0.094	1.000	4122				

REMARKS:

Ash analysis tested after preparing the ash of coal & (Proximate , Ultimate & GCV) tested on air dry basis (adb).Submitted by the party

*Indicates information supplied by the customer for which the laboratory has no control.
Enclosures ()



PREPARED BY

Rashmi Ranjan Sahoo

RASHMI RANJAN SAHOO

Pankaj Choudhury

PANKAJ CHOUDHURY
(DEPUTY TECHNICAL MANAGER)

AUTHORISED SIGNATORY

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TEST REPORT CONTINUATION SHEET

Test Report No. : IGI/BBSR/TR/2023/BH055729/1

Page 3 of 3

DATE: 11.01.2023

Chemical Testing

Solid Fuels

*PARAMETERS TESTED : SO3

TEST METHOD :
(ASTM / IS / ISO / OTHERS)

Ash Analysis - ASTM D 6349 (ICP OES)-2021

TEST RESULTS									
Analysis Commencement Date: 09.01.2023					Analysis Completion Date: 10.01.2023				
SAMPLE REF/ID (Customer)		SAMPLE CODE (Laboratory)	SO3 % (ar)						
SAMPLE ID- PPGCL/CHEM/COAL/DEC-22		3448827	0.022						

REMARKS:

Ash analysis tested after preparing the ash of coal & (Proximate , Ultimate & GCV) tested on air dry basis (adb).Submitted by the party

*Indicates information supplied by the customer for which the laboratory has no control.
Enclosures ()

PREPARED BY

RASHMI RANJAN SAHOO

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TEST REPORT

Test Report No. : IGI/BBSR/TR/2023/BH057222 ULR-TC676623000002577F

Page 1 of 3

DATE: 03.03.2023

Chemical Testing

Solid Fuels

Job No. :	BH057222
*NAME & ADDRESS OF CUSTOMER :	M/S PRAYAGRAJ POWER GENERATION COMPANY LTD. POST-LOHAGARA, TEHSIL- BARA, DIST- PRAYAGRAJ (U.P), PIN CODE-
*CUSTOMERS REFERENCE : (POST/COURIER/FAX/E-MAIL)	W.O. NO- 6000000997 (LETTER- DT- 16.02.2023) DATE: 16.08.2022
SAMPLE PARTICULARS : (MATERIAL TO BE TESTED)	Coal
SAMPLE RECEIPT DATE :	23.02.2023
NO. OF SAMPLE(S) :	1
SAMPLE DESCRIPTION :	SAMPLE RECEIVED FROM CUST- M/S. PRAYAGRAJ POWER GENERATION COMPANY LTD.
CONDITION OF SAMPLE :	POWDER (01 X 200 GMS)
*PARAMETERS TESTED :	Carbon, Hydrogen, Nitrogen, Oxygen (by difference), Total Sulfur, Ash , Moisture in Analysis Sample (IM), Volatile Matter, Fixed Carbon, CaO, MgO, Fe2O3, TiO2, Na2O, P2O5, SO3, MnO, SiO2, Al2O3, Gross Calorific Value
TEST METHOD : (ASTM / IS / ISO / OTHERS)	Ultimate Analysis (Carbon, Hydrogen and Nitrogen) - ASTM D5373 - 21 Fe2O3 - IS 1355: 1984 Ultimate Analysis (Oxygen) - ASTM D 3176 -15 TiO2 - IGI/TPM/L/BSR/15.4 total Sulphur - ASTM D 4239 - 18e1 Na2O - IS 1355 : 1984 Ash - ASTM D 3174: 12, (2018) e1 P2O5 - IS 1355: 1984 Moisture in Analysis Sample (IM) - IS 1350 (Part 1) :1984 SO3 - IS 1355: 1984 Volatile Matter - IS 1350 (Part 1):1984 MnO, Mn3O4 - IS 1355: 1984 Ash-IS 1350 (Part 1) : 1984 SiO2 - IS 1355: 1984 Fixed Carbon- IS 1350 (Part 1) : 1984 Al2O3 IS 1355 :1984 CaO - IS 1355 :1984 GCV - IS 1350 (Part-2):2022 MgO - IS 1355: 1984

REMARKS:

Proximate , Ultimate & GCV tested on air dry basis (adb) & Ash Analysis & AFT tested after preparing the ash of coal. Submitted by the party

*Indicates information supplied by the customer for which the laboratory has no control.
Enclosures ()



SHYAMAL KUMAR MALLIK
(TECHNICAL MANAGER)

AUTHORISED SIGNATORY

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DATE: 03.03.2023

**TEST REPORT CONTINUATION SHEET**

Test Report No. :

IGI/BBSR/TR/2023/BH057222

ULR-TC676623000002577F

Page 2 of 3

DATE: 03.03.2023

Chemical Testing

Solid Fuels

TEST RESULTS

Analysis Commencement Date: 23.02.2023		Analysis Completion Date: 01.03.2023							
		TEST PARAMETERS							
SAMPLE REF/ID (Customer)	SAMPLE CODE (Laboratory)	Carbon %	Hydrogen %	Nitrogen %	Oxygen (by difference) %	Total Sulfur %	Ash %	Moisture in Analysis Sample (IM) %	Volatile Matter %
		(adb)	(adb)	(adb)	(adb)	(adb)	(adb)	(adb)	(adb)
SAMPLE ID- PPGCL/CHEM/COAL/JAN-23	3501769	40.1	3.54	1.02	14.859	0.437	40.044	4.340	25.036

TEST RESULTS

Analysis Commencement Date: 23.02.2023		Analysis Completion Date: 01.03.2023							
		TEST PARAMETERS							
SAMPLE REF/ID (Customer)	SAMPLE CODE (Laboratory)	Ash %	Fixed Carbon %	CaO %	MgO %	Fe2O3 %	TiO2 %	Na2O %	P2O5 %
		(adb)	(adb)	(ar)	(ar)	(ar)	(ar)	(ar)	(ar)
SAMPLE ID- PPGCL/CHEM/COAL/JAN-23	3501769	40.052	30.572	1.402	0.615	7.983	1.378	0.106	0.278

TEST RESULTS

Analysis Commencement Date: 23.02.2023		Analysis Completion Date: 01.03.2023						
		TEST PARAMETERS						
SAMPLE REF/ID (Customer)	SAMPLE CODE (Laboratory)	SO3 %	MnO %	SiO2 %	Al2O3 %	Gross Calorific Value kcal/kg (adb)		
		(ar)	(ar)	(ar)	(ar)	(adb)		
SAMPLE ID- PPGCL/CHEM/COAL/JAN-23	3501769	0.274	0.047	61.79	24.55	4002		

REMARKS:

Proximate , Ultimate & GCV tested on air dry basis (adb) & Ash Analysis & AFT tested after preparing the ash of coal. Submitted by the party

*Indicates information supplied by the customer for which the laboratory has no control.
Enclosures ()

TC-6766

SHYAMAL KUMAR MALLIK
(TECHNICAL MANAGER)

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**TEST REPORT CONTINUATION SHEET**

Test Report No. : IGI/BBSR/TR/2023/BH057222/1

Page 3 of 3

DATE: 03.03.2023

Chemical Testing

Solid Fuels

*PARAMETERS TESTED : Deformation Temperature, Spherical Temperature, Hemispherical Temperature, Flow Temperature, K2O

TEST METHOD : Ash Fusion Temperature (Reducing) - IS 12891: K2O - IS 9497: 1980 2021

(ASTM / IS / ISO / OTHERS)

Ash Fusion Temperature (Oxidizing) - IS 12891: 2021

TEST RESULTS									
Analysis Commencement Date: 23.02.2023					Analysis Completion Date: 01.03.2023				
SAMPLE REF/ID (Customer)	SAMPLE CODE (Laboratory)	TEST PARAMETERS							
		Deformation Temperature Degree C (MRA)	Spherical Temperature Degree C (MRA)	Hemispheri- cal Temperature Degree C (MRA)	Flow Temperature Degree C (MRA)	Deformation Temperature Degree C (OA)	Spherical Temperature Degree C (OA)	Hemispheri- cal Temperature Degree C (OA)	Flow Temperature Degree C (OA)
SAMPLE ID- PPGCL/CHEM/COAL/JAN-23	3501769	>1500	>1500	>1500	>1500	>1500	>1500	>1500	>1500

TEST RESULTS									
Analysis Commencement Date: 23.02.2023					Analysis Completion Date: 01.03.2023				
SAMPLE REF/ID (Customer)	SAMPLE CODE (Laboratory)	TEST PARAMETERS							
		K2O % (ar)							
SAMPLE ID- PPGCL/CHEM/COAL/JAN-23	3501769	0.966							

REMARKS:

Proximate , Ultimate & GCV tested on air dry basis (adb) & Ash Analysis & AFT tested after preparing the ash of coal. Submitted by the party

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Enclosures ()

 SHYAMAL KUMAR MALLIK
(TECHNICAL MANAGER)

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TEST REPORT CONTINUATION SHEET

Test Report No. :

IGI/BBSR/TR/2023/BH057223

ULR-TC676623000002578F

Page 2 of 3

DATE: 03.03.2023

Chemical Testing

Solid Fuels

TEST RESULTS

Analysis Commencement Date: 23.02.2023		Analysis Completion Date: 01.03.2023							
		TEST PARAMETERS							
SAMPLE REF/ID	SAMPLE	Carbon	Hydrogen	Nitrogen	Oxygen (by difference)	Total Sulfur	Ash	Moisture in Analysis Sample (IM)	Volatile Matter
(Customer)	CODE	%	%	%	%	%	%	%	%
	(Laboratory)	(adb)	(adb)	(adb)	(adb)	(adb)	(adb)	(adb)	(adb)
SAMPLE ID- PPGCL/CHEM/COAL/FEB-23	3501773	42.8	3.76	1.05	14.600	0.412	37.378	4.510	25.634

TEST RESULTS

Analysis Commencement Date: 23.02.2023		Analysis Completion Date: 01.03.2023							
		TEST PARAMETERS							
SAMPLE REF/ID	SAMPLE	Ash	Fixed Carbon	CaO	MgO	Fe2O3	TiO2	Na2O	P2O5
(Customer)	CODE	%	%	%	%	%	%	%	%
	(Laboratory)	(adb)	(adb)	(ar)	(ar)	(ar)	(ar)	(ar)	(ar)
SAMPLE ID- PPGCL/CHEM/COAL/FEB-23	3501773	37.391	32.465	1.402	0.833	7.983	1.393	0.106	0.325

TEST RESULTS

Analysis Commencement Date: 23.02.2023		Analysis Completion Date: 01.03.2023							
		TEST PARAMETERS							
SAMPLE REF/ID	SAMPLE	SO3	MnO	SiO2	Al2O3	Gross Calorific Value			
(Customer)	CODE	%	%	%	%	kcal/kg			
	(Laboratory)	(ar)	(ar)	(ar)	(ar)	(adb)			
SAMPLE ID- PPGCL/CHEM/COAL/FEB-23	3501773	0.274	0.047	61.79	24.39	4263			

REMARKS:

*Indicates information supplied by the customer for which the laboratory has no control.
Enclosures (Proximate, Ultimate & GCV tested on air dry basis (adb) & Ash Analysis & AFT tested after preparing the ash of coal. Submitted by the party)



Shyamal
SHYAMAL KUMAR MALLIK
(TECHNICAL MANAGER)
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**TEST REPORT CONTINUATION SHEET**

Test Report No. : IGI/BBSR/TR/2023/BH057223/1

Page 3 of 3

DATE: 03.03.2023

Chemical Testing

Solid Fuels

*PARAMETERS TESTED : Deformation Temperature, Spherical Temperature, Hemispherical Temperature, Flow Temperature, K2O

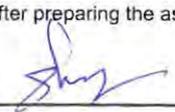
TEST METHOD : Ash Fusion Temperature (Reducing) - IS 12891: K2O - IS 9497: 1980
(ASTM / IS / ISO / OTHERS) 2021Ash Fusion Temperature (Oxidizing) - IS 12891:
2021

TEST RESULTS									
Analysis Commencement Date: 23.02.2023					Analysis Completion Date: 01.03.2023				
SAMPLE REF/ID		TEST PARAMETERS							
(Customer)	SAMPLE CODE (Laboratory)	Deformation Temperature	Spherical Temperature	Hemispherical Temperature	Flow Temperature	Deformation Temperature	Spherical Temperature	Hemispherical Temperature	Flow Temperature
		Degree C (MRA)	Degree C (MRA)	Degree C (MRA)	Degree C (MRA)	Degree C (OA)	Degree C (OA)	Degree C (OA)	Degree C (OA)
SAMPLE ID- PPGCL/CHEM/COAL/FEB-23	3501773	>1500	>1500	>1500	>1500	>1500	>1500	>1500	>1500

TEST RESULTS									
Analysis Commencement Date: 23.02.2023					Analysis Completion Date: 01.03.2023				
SAMPLE REF/ID		TEST PARAMETERS							
(Customer)	SAMPLE CODE (Laboratory)	K2O							
		% (ar)							
SAMPLE ID- PPGCL/CHEM/COAL/FEB-23	3501773	0.894							

REMARKS:

*Indicates information supplied by the customer for which the laboratory has no control.
Enclosures (Proximate , Ultimate & GCV tested on air dry basis (adb) & Ash Analysis & AFT tested after preparing the ash of coal. Submitted by the party)



SHYAMAL KUMAR MALLIK
(TECHNICAL MANAGER)

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TEST REPORT

Test Report No. : IGI/BBSR/TR/2023/BH058185 ULR-TC676623000003814F

Page 1 of 3

DATE: 29.03.2023

Chemical Testing

Solid Fuels

Job No. :	BH058185	
*NAME & ADDRESS OF CUSTOMER :	M/S PRAYAGRAJ POWER GENERATION COMPANY LTD. POST-LOHAGARA, TEHSIL- BARA, DIST- PRAYAGRAJ (U.P), PIN CODE-	
*CUSTOMERS REFERENCE : (POST/COURIER/FAXE-MAIL)	W.O. NO- 6000000852 (LETTER- DT- 16.02.2023)	DATE: 18.04.2022
SAMPLE PARTICULARS : (MATERIAL TO BE TESTED)	Coal	
SAMPLE RECEIPT DATE :	24.03.2023	
NO. OF SAMPLE(S) :	1	
SAMPLE DESCRIPTION :	SAMPLE RECEIVED FROM CUST- M/S. PRAYAGRAJ POWER GENERATION COMPANY LTD.	
CONDITION OF SAMPLE :	POWDER (01 X 200 GMS)	
*PARAMETERS TESTED :	Carbon, Hydrogen, Nitrogen, Oxygen (by difference), Total Sulfur, Ash , Moisture in Analysis Sample (IM), Volatile Matter, Fixed Carbon, Gross Calorific Value, CaO, MgO, Fe2O3, TiO2, Na2O, P2O5, SO3, MnO, SiO2, Al2O3	
TEST METHOD : (ASTM / IS / ISO / OTHERS)	Ultimate Analysis (Carbon, Hydrogen and Nitrogen) - ASTM D5373 - 21	MgO - IS 1355: 1984 Fe2O3 - IS 1355: 1984
	Ultimate Analysis (Oxygen) - ASTM D 3176 -15	TiO2 - IGI/TPM/L/BSR/15.4
	total Sulphur - ASTM D 4239 - 18e1	Na2O - IS 1355 : 1984
	Ash - ASTM D 3174: 12, (2018) e1	P2O5 - IS 1355: 1984
	Moisture in Analysis Sample (IM) - IS 1350 (Part 1) :1984	SO3 - IS 1355: 1984
	Volatile Matter - IS 1350 (Part 1):1984	MnO, Mn3O4 - IS 1355: 1984
	Ash -IS 1350 (Part 1) : 1984	SiO2 - IS 1355: 1984
	Fixed Carbon- IS 1350 (Part 1) : 1984	Al2O3 IS 1355 :1984
	GCV - IS 1350 (Part-2):2022	
	CaO - IS 1355 :1984	

REMARKS:

Proximate , Ultimate & GCV tested on air dry basis (adb) & Ash Analysis & AFT tested after preparing the ash of coal. Submitted by the party

*Indicates information supplied by the customer for which the laboratory has no control.
 Enclosures ()



PANKAJ CHOUDHURY
 (DEPUTY TECHNICAL MANAGER)
 AUTHORISED SIGNATORY

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**TEST REPORT CONTINUATION SHEET**

Test Report No. :

IGI/BBSR/TR/2023/BH058185

ULR-TC676623000003814F

Page 2 of 3

DATE: 29.03.2023

Chemical Testing

Solid Fuels

TEST RESULTS

Analysis Commencement Date: 24.03.2023		Analysis Completion Date: 29.03.2023							
SAMPLE REF/ID		TEST PARAMETERS							
(Customer)	SAMPLE CODE (Laboratory)	Carbon %	Hydrogen %	Nitrogen %	Oxygen (by difference) %	Total Sulfur %	Ash %	Moisture in Analysis Sample (IM) %	Volatile Matter %
		(adb)	(adb)	(adb)	(adb)	(adb)	(adb)	(adb)	(adb)
SAMPLE ID- PPGCL/CHEM/COAL/MARCH-23	3546210	40.5	3.54	1.29	15.641	0.415	38.614	5.201	25.360

TEST RESULTS

Analysis Commencement Date: 24.03.2023		Analysis Completion Date: 29.03.2023							
SAMPLE REF/ID		TEST PARAMETERS							
(Customer)	SAMPLE CODE (Laboratory)	Ash %	Fixed Carbon %	Gross Calorific Value kcal/kg	CaO %	MgO %	Fe2O3 %	TiO2 %	Na2O %
		(adb)	(adb)	(adb)	(ar)	(ar)	(ar)	(ar)	(ar)
SAMPLE ID- PPGCL/CHEM/COAL/MARCH-23	3546210	38.544	30.895	4045	0.701	0.507	5.588	1.540	0.187

TEST RESULTS

Analysis Commencement Date: 24.03.2023		Analysis Completion Date: 29.03.2023						
SAMPLE REF/ID		TEST PARAMETERS						
(Customer)	SAMPLE CODE (Laboratory)	P2O5 %	SO3 %	MnO %	SiO2 %	Al2O3 %		
		(ar)	(ar)	(ar)	(ar)	(ar)		
SAMPLE ID- PPGCL/CHEM/COAL/MARCH-23	3546210	0.449	0.103	0.047	62.95	26.35		

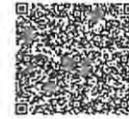
REMARKS:

Proximate, Ultimate & GCV tested on air dry basis (adb) & Ash Analysis & AFT tested after preparing the ash of coal. Submitted by the party

*Indicates information supplied by the customer for which the laboratory has no control.
Enclosures ()


PANKAJ CHOUDHURY
(DEPUTY TECHNICAL MANAGER)
AUTHORISED SIGNATORY

SAMPLING NOT DONE BY THE LABORATORY. RESULTS RELATE TO THE SAMPLE TESTED ONLY
THE CONTENTS OF THE REPORT SHALL NOT BE REPRODUCED EITHER IN FULL OR IN PART WITHOUT PRIOR WRITTEN CONSENT OF THE ISSUING AUTHORITY



TEST REPORT CONTINUATION SHEET

Test Report No. : IGI/BBSR/TR/2023/BH058185/1 Page 3 of 3
 DATE: 29.03.2023

Chemical Testing
 Solid Fuels

*PARAMETERS TESTED : Deformation Temperature, Spherical Temperature, Hemispherical Temperature, Flow Temperature, K2O

TEST METHOD : Ash Fusion Temperature (Oxidizing) - IS 12891: 2021 K2O - IS 9497: 1980
 (ASTM / IS / ISO / OTHERS) Ash Fusion Temperature (Reducing) - IS 12891: 2021

TEST RESULTS									
Analysis Commencement Date: 24.03.2023					Analysis Completion Date: 29.03.2023				
SAMPLE REF/ID (Customer)	SAMPLE CODE (Laboratory)	TEST PARAMETERS							
		Deformation Temperature Degree C (OA)	Spherical Temperature Degree C (OA)	Hemispherical Temperature Degree C (OA)	Flow Temperature Degree C (OA)	Deformation Temperature Degree C (MRA)	Spherical Temperature Degree C (MRA)	Hemispherical Temperature Degree C (MRA)	Flow Temperature Degree C (MRA)
SAMPLE ID- PPGCL/CHEM/COAL/MARCH-23	3546210	>1500	>1500	>1500	>1500	>1500	>1500	>1500	>1500

TEST RESULTS									
Analysis Commencement Date: 24.03.2023					Analysis Completion Date: 29.03.2023				
SAMPLE REF/ID (Customer)	SAMPLE CODE (Laboratory)	TEST PARAMETERS							
		K2O % (ar)							
SAMPLE ID- PPGCL/CHEM/COAL/MARCH-23	3546210	0.888							

REMARKS:

Proximate , Ultimate & GCV tested on air dry basis (adb) & Ash Analysis & AFT tested after preparing the ash of coal. Submitted by the party

*Indicates information supplied by the customer for which the laboratory has no control. Enclosures ()

PANKAJ CHOUDHURY
 (DEPUTY TECHNICAL MANAGER)
 AUTHORISED SIGNATORY

SAMPLING NOT DONE BY THE LABORATORY. RESULTS RELATE TO THE SAMPLE TESTED ONLY
 THE CONTENTS OF THE REPORT SHALL NOT BE REPRODUCED EITHER IN FULL OR IN PART WITHOUT PRIOR WRITTEN CONSENT OF THE ISSUING AUTHORITY

5/6/23, 3:40 PM

Quality Certificate


BHARAT PETROLEUM CORPORATION LIMITED

MUMBAI REFINERY, Mahul, Mumbai INDIA - 400074

QUALITY ASSURANCE LABORATORY
Certificate of Quality: AUTOMOTIVE DIESEL FUEL BS VI


TC-7138

Source of Sample:	BPCL Mumbai Refinery Storage Tank	Storage Tank No.:	TK_520
Sample Drawn by:	BLEND_OPER	Batch No.:	DIESEL_VI/BPC/MR/TK_520/268
Date Sampled :	28/04/2023	Type of Sample.:	Composite
Date of Receipt in Lab:	29/04/2023	Reason for Testing:	Full Specifications
Date of Testing:	29/04/2023	Certificate Number:	DIESEL_VI/274/2023
Date of Certification:	29/04/2023	Reporting Reference:	476819

Sr.No.	Tests	Method	Specification	Result	Units
1	95 % Rec Temperature	ASTM D86	Max 360	357.5	°C
2	Acidity, Inorganic, mg of KOH/g	ASTM D974	Nil	Nil	
3	Acidity, Total	ASTM D974	Max 0.2	0.060	mgKOH/g
4	Appearance	VISUAL	Clear	Clear, bright and free from sediments, suspended matter and undissolved water.	
5	Ash Content	IS 1448 [P: 4]	Max 0.01	0.005	%wt
6	Carbon Residue (Micro) on 10% Residue	ISO 10370	Max 0.3	0.05	% wt
7	Cetane Index	ASTM D4737	Min 46	52.1	
8	Cetane Number	IS 1448 [P: 9]	Min 51	51.5	
9	Cold Filter Plugging Point	IS 1448 [P:110]	Max 18	-6	°C
10	Colour (ASTM)	ASTM D1500	Max 5	<1.5	
11	Copper Strip Corrosion, 3hrs @ 50°C	IS 1448 [P: 15]	Not worse than No. 1	1a	
12	Density at 15°C	IS 1448 [P: 16]	810.0 to 845.0	821.4	kg/m3
13	Density at 15°C	IS 1448 [P: 16]	To be reported	0.8214	g/ml
14	FAME Content	ASTM D7371	Not added	Not Added	
15	Flash Point (ABEL)	IS 1448 [P: 20]	Min 35	38.0	°C
16	Kinematic viscosity@ 40°C	ASTM D445	2.0 to 4.5	2.429	cSt
17	Lubricity Corrected WSD @ 60°C	IS 1448 [P: 149]	Max 460	420	Microns
18	Oxidation Stability	ASTM D2274	Max 25	8	g/m3
19	Polycyclic Aromatic Hydrocarbon (PAH)	IP 391	Max 8.0	3.16	% by mass
20	Pour Point	ASTM D5950	Max 15	-9	°C
21	Total Contamination	EN 12662	Max 24	9	mg/kg
22	Total Sulphur	ASTM D5453	Max 10	7	mg/kg
23	Water_Content	ISO 12937	Max 200	130	mg/Kg

REMARKS : PRODUCT CONFORMS IS 1460:2017 SPECIFICATION.

FOR THE QUALITY ASSURANCE LABORATORY, BPCL REFINERY, MUMBAI.

1. Test results relate only to the sample tested. The test report applies to the sample as received
2. This certificate is the property of Quality Assurance Laboratory of BPCL (R), Mahul, Mumbai and shall not be reproduced except in full without written approval of the Laboratory.
3. This report shall not be published / reproduced for commercial / advertisement purpose or as evidence in the court of law.
4. This is a computer generated document from LIMS, hence no signature is required.

A LABORATORY ACCREDITED BY NABL FOR INTERNATIONAL STANDARDS (ISO 17025:2017)

Format Number : 35243

Mahul, Mumbai-74, Tel.:25533000/25542990

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

SINGURU RAMANA
ASST MANAGER (QUALITY ASSURANCE) MR
AUTHORIZED PERSON


TRUE COPY

**PRAYAGRAJ POWER GENERATION COMPANY LIMITED
BARA, PRAYAGRAJ
UTTAR PRADESH**



CORPORATE SOCIAL RESPONSIBILITY (CSR) POLICY


TRUE COPY

PPGCL Corporate Social Responsibility Policy

Guiding Principles:

PPGCL commitment to Corporate Social Responsibility (CSR) is founded on the believe which is aptly expressed as - *"In a free enterprise, the community is not just another stakeholder in our business, but it is in fact, the very purpose of its existence."*

The Company's vision is to enable education and livelihoods in a manner that makes target communities future ready & the regions we operate in sustainable.

The key interventions for target communities are focused in the following thematic focus areas:

1. Education (Including Financial & Digital Literacy)
2. Health & Sanitation
3. Employability & Employment (Skilling for Livelihoods)
4. Entrepreneurship
5. Social & Financial Inclusion

The CSR committee outlines, reviews and monitors identification of target communities, geographies, thematic focus areas and resource allocation with respect to CSR action plans.

Approach & Target Communities:

The Company deploys development interventions through the Trust/Govt/Not for Profits / like - minded experts/partners. The objective is to empower women, community collectives, institutions, and youth in line with the thematic focus areas in and around operational geographies and strategic regions of business and national importance.

PPGCL also supports ecological support programmes, disaster relief and rehabilitation on a need-basis in identified regions and for disadvantaged sections of society. It encourages employees and families to leverage expertise and skills to contribute meaningfully to key communities through volunteering personally and through Company facilitated projects.

The Company may additionally undertake activities as laid down and periodically updated as per Schedule VII of the Companies Act, 2013 – as outlined in Annexure I and as deemed appropriate by its CSR Committee. The Company shall not mark CSR expenditure on activities specifically excluded from the CSR provisions. The Company shall ensure that any surplus arising out of the CSR projects does not form part of its business profit.

Governance Mechanism:

We follow structured governance procedures to monitor CSR activities. Our CSR policy is governed by the Board of Directors of the Company. The Board has constituted a CSR Committee of minimum three directors out of which at least one director is an Independent Director who shall monitor the Policy and the programmes from time to time.

The Board monitors and reviews the performance and impact of the CSR programmes, provides input and course corrections if required and satisfies itself that the CSR funds so disbursed are aligned to the CSR Policy of the Company and have been utilized for the purposes and in the manner as approved by it. The CSR team shall also institute appropriate governance systems to ensure that there is adequate oversight and checks and balance in the processes to ensure desired outcomes.

Implementation & Monitoring:

The annual action plans follow all required guiding principles for selecting, implementing, monitoring, the CSR activities and lays out the key outcome indicators that are measurable and time bound.

The CSR Programmes of the Company are implemented & monitored through a three-tier structure:

- Local level CSR & volunteer teams take up implementation of key initiatives, in association with Trust/Govt/Not for Profits / like - minded experts/partners.
- CSR committee at Board level provides strategic direction for CSR planning and conducts monitoring & review meetings to ensure desired impact. The CSR committee shall periodically review the CSR project reports and progress.
- All CSR spends will be closely monitored and audited in an accountable and transparent manner.

The custodian of this policy is the CSR team and any deviations or changes will be with the recommendation of the CSR team to the Board CSR Committee.



Ashok Panda
Chief Executive Officer

Photographs of the pollution control equipment, dust suppression system, construction of pucca road, tree plantation –



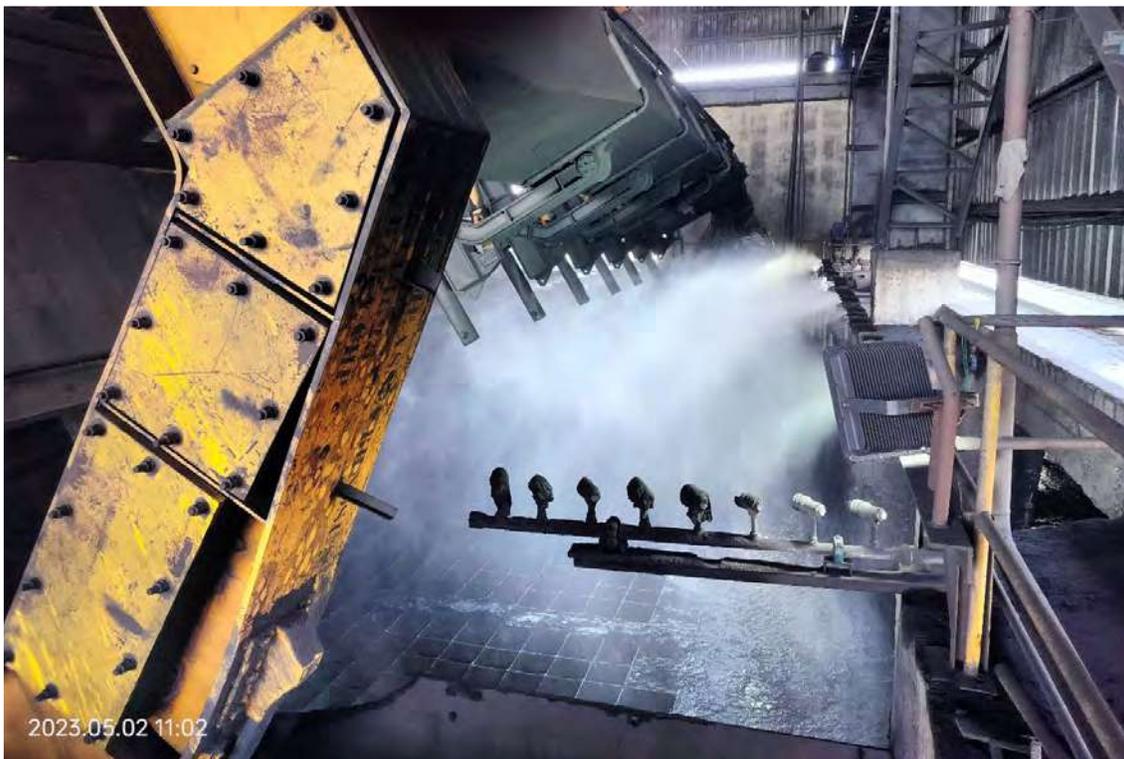
ESP installed for particulate emission control



Bag filter installed for particulate emission control



Bag filter installed for particulate emission control



Fogging system at wagon tippler area



Dust suppression system installed at coal yard



Pucca road with in plant premises



Pucca road with in plant premises



Water sprinkling through tankers in ash pond bund



Green belt development

Pics of RO plant









Bushra | 2023.04.29 10:08

ANNEXURE R4/28**WORK ORDER**

VENDOR DETAILS	ORDER DETAILS
Vendor Code : 100004025 DIVYANSH RO WATER SUPPLIER NIVI CT LOHGARA BAZAR JASRA PRAYAGRAJ: 212106,India Attn : Tel : 9511068812 E-mail : Vendor GST No.: 09CFJPS6386B1ZZ Vendor PAN No. CFJPS6386B	Work Order Ref : 6000001365 Date : 18.07.2023 Currency : INR Company Representative :Mr. Dheeraj Gupta Email : dheeraj.gupta@ppgcl.co.in Our Reference No : Contractor's Quote reference : OLA Reference No :- NA Company GST No: 09AAECP2746B1ZM

PO is being place for 1 year AMC contract for RO with inclusive of operation and maintenance activity.

The Work Order constitutes Company's offer to Contractor upon the terms and conditions stated herein and shall become a binding Contract, when it is accepted either by Contractor's acknowledgement or performance. The Work Order expressly limits acceptance to the terms and conditions stated herein. Any additional or different terms or conditions proposed by Contractor are objected to and hereby rejected, including without limitation, Contractors quotation or acknowledgement forms. Any reference in the Work Order to Contractors quotation or proposal does not imply acceptance of any terms or conditions in that quotation or proposal. It is important that Contractor signs and returns the Work Order copy within (3) days of receipt. No other forms of acceptance will be accepted. Failure to return the acceptance does not diminish the responsibilities as set forth herein, but may result in delay to any payment that may be due to and may be a cause of termination of this Work Order.

TOTAL ORDER VALUE (Exclusive of all taxes, levies and duties) : INR 4,08,000.00.

In words: (Rupees Four lakh eight thousand only).

For Prayagraj Power Gn.Co.Ltd	CONTRACTOR'S ACCEPTANCE
Signature: _____ Name: Approver Name : Rajnish Singh Designation : MM	Signature: _____ Name: Designation :

This Purchase Order/Contract will be executed / suspended and,managed till Contract completion/commissioning of the work by order Manager (details below):
Order Manager: Mr - Pankaj Kumar, Group Head - Environment, Mobile: 9234001684.



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PRICE SCHEDULE

Item No.	HSN/SAC Code	Service Description	Qty	UOM	Unit Price	Amount
10	00440245	AMC RO System IN: Central GST -ND 9 % IN: State GST -ND 9 %	1.000	AU	4,08,000.00	408000.00

This item includes the following services:

S.No	HSN/SAC Code	Service Code	Service Description	Qty	UOM	Unit Price	Amount
10.10	00440245	3003302	CSR/AMC RO SYSTEM	12	AU	34,000.00	4,08,000.00
Total Order Value (Exclusive of all taxes, levies and duties)							4,08,000.00

Total Order Value : Rupees Four lakh eight thousand only (Exclusive of all taxes, levies and duties).

COMMERCIAL CONDITIONS**1. Scope :**

1 year AMC contract for RO with inclusive of operation and maintenance activity.

2. Price Basis :

This is a fixed scope basis monthly module contract. Payment shall be made in monthly wise.

3. Completion Schedule/Service to be performed at :

Contract period – 1 year from the date of issuing of OLA/PO.

4. Payment Terms :

60 Days From GR date

100% payment of every running amount bill shall be made on 60 Days Credit terms after submission of error free invoices duly certified by Order manager.

5. Taxes and Duties :

GST 18% extra as applicable.

6. Anti Profiteering Clause:

Notwithstanding anything contained in the Contract, in the event of introduction of any new legislation or any change or amendment or enforcement of any Act or Law, or any change in the interpretation by the Supreme Court of India of any said Act or law, rules or regulations of Government of India or State Government(s) or Public Body which becomes effective after the bid date to the completion of work including defect liability period, if any, which results in any decrease in the cost of the works through reduced liability of taxes & duties, increase in the input tax credits, the Supplier shall pass on the benefits of such reduced cost, taxes or duties to Prayagraj Power Gn.Co.Ltd to the extent which is directly attributable to such introduction of new legislation or change or amendment as mentioned above as per Anti-profiteering Rules, 2017, hereby,

"Tax" or "tax" shall include taxes, duties, levies, cess and similar imposts by whatever name called whether in the nature of

7. Compliance of Local Laws:

The Contractor shall be fully responsible for the due compliance by him and his sub-contractors with all statutory requirements and with all applicable labour laws including Contract Labour Abolition and Regulation Act, Workmen's Compensation Act, P.F./E.S.I., Labour welfare fund, Act, etc. as may be applicable to the Contractor, the sub-contractors and their employees. The locations where Allied Manpower Management System (On-line system) has been implemented, the Contractor shall ensure necessary declarations and documents are provided in the system, as per the role of the Contractor envisaged in the system.

The Contractor should get in touch with the local HR/IR/ES&A teams for completion of Statutory compliances before start of the work. The contractor should also ensure that he provides correct and complete PF compliance data for a wage month in the format provided by the HR/IR/ES&A teams on or before 15th of the subsequent month, failing which penalty of 1% of the value of the Invoice, per day of delay would be deducted from the Invoice raised. Further, the management will also have a right to suspend the work in case of delay in submitting the PF data.

All other compliances required by HR/IR/ES&A teams should also be provided as per timelines.

The Contractor shall fully indemnify and save harmless the Owner from and against all claims, demands, expenses, losses, liabilities, charges, actions, suits and proceedings whatsoever including claims under aforesaid Acts and laws which may be brought or made against the Owner, its Officers or servants by reason or in consequence of any matter or thing done or omitted or delaying the submission of data by the Contractor and/ or its sub-contractors and all costs, charges and expenses which may become payable by the Owner in respect thereof.

8. Performance Parameters & Deductions due to non compliance :

Not applicable.

9. Order Manager :

This order shall be managed by Mr - Pankaj Kumar, Group Head - Environment, Mobile: 9234001684. from Owner. You are requested to contact him/her for further queries related to execution.

10. Contract Performance Bank Guarantee :

NA.

11. Order of Precedence :

In the event of conflict between the provision of this order along with its attachments and annexure, the following order of precedence shall apply so that the conflicting provision(s) in the document lower in the order of precedence set out below shall give way to the conflicting provision(s) in the document higher in the order of precedence, namely:

1. Work Order (with 'Commercial Conditions')
2. Special Terms and conditions
3. General Terms and conditions
4. Technical Specification

12. Modifications to the General Conditions of Contract :

1.1 year AMC contract for RO with inclusive of operation and maintenance activity are in bidder scope.

WORK ORDER DETAILS

WORK ORDER 6000001365

2. Bidder has to comply all statutory compliance and all prices are inclusive of lodging boarding and all travel expenses.

13. Annexure

PPGCL GCC service is applicable.

S.No	HSN/SAC Code	Service Code	Short Description	Long Description	Qty	UOM	Delivery Date
10.10	00440245	3003302	CSR/AMC RO SYSTEM	CSR/AMC RO SYSTEM	12	AU	04.07.2024


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National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

MITRA S.K. PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

BUILDING NO. P-48, UDAYAN INDUSTRIAL ESTATE, 3, PAGLADANGA ROAD, KOLKATA, WEST
BENGAL, INDIA

in the field of

TESTING

Certificate Number: TC-6950

Issue Date: 18/09/2021

Valid Until: 17/09/2023

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : MITRA S.K. PRIVATE LIMITED

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer

TRUE COPY



F. No. LB/99/7/2021-INST LAB-HO-CPCB-HO/Pvt-33 13852

Dated: 17th February 2022Speed Post

To,

The Managing Director
M/s Mitra S.K. Private Ltd.
3, Pagladanga Road P-48, Udayam Industrial Estate Building,
Kolkata-700015, West Bengal.

Subject: Recognition of M/s Mitra S.K. Private Ltd. Kolkata-700015, West Bengal as Environmental laboratory under the Environmental (Protection) Act-1986.

Sir,

I am directed to refer to your application dated 26/10/2021 for the recognition of your laboratory Environmental (Protection) Act, 1986. Based on the recommendations of the expert committee for recognition of Environmental laboratories in its 67th meeting held on 14th January & 20th January 2022 and your acceptance of the revised terms and conditions at Annexure-III & IV of the guidelines for recognition of environmental laboratories, CPCB approves the renewal of recognition of M/s Mitra S.K. Private Ltd. Kolkata-700015, West Bengal as shall be notified in the Gazette of India. Considering the current validity of mandatory accreditation/ certifications of the laboratory, this recognition shall be valid up to 17/09/2023.

2. As sought in your aforementioned application M/s Recognition of M/s Mitra S.K. Private Ltd. Kolkata-700015, West Bengal may undertake the following tests.

- i. **Physical Tests**-Conductivity, Colour, pH, Fixed & Volatile solids, Total Solids, Total Dissolved Solids, Total Suspended Solids, Turbidity, Temperature, Velocity & Discharge Measurement of Industrial Effluent Stream, Odour, Salinity, Settleable Solids and Sludge Volume Index (SVI).
- ii. **Inorganic (General and non-metallic):** Acidity, Alkalinity, Ammonical Nitrogen, Chloride, Chlorine Residual, Dissolved Oxygen, Fluoride, Total Hardness, Total Kjeldahl Nitrogen (TKN), Nitrite Nitrogen, Nitrate Nitrogen, Phosphate, Sulphate, Carbon Dioxide, Silica, Cyanide and Sulphide.
- iii. **Inorganic (Trace metals):** Boron, Cadmium, Calcium, Chromium Total, Chromium Hexavalent, Copper, Iron, Lead, Magnesium, Mercury, Nickel, Potassium, Sodium, Sodium Absorption Ratio, Zinc, Arsenic, Aluminium, Beryllium, Barium, Lithium Manganese, Selenium, Silver, Strontium, Tin, Antimony, Cobalt and Vanadium.
- iv. **Organics (General) and Trace Organics:** Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Oil and Grease, Phenol, Pesticide (each) (Organo-chlorine and Organo nitrogen-phosphorus), Poly Chlorinated Biphenyl (PCBs) each, Polynuclear Aromatic Hydrocarbons (PAHs) each, Organic Carbon (in Solid) and Carbon/Nitrogen ratio.
- v. **Microbiological test:** Total Coliform, Faecal Coliform, *Faecal Streptococci*, *E. coli*, Total Plate Count and *Enterococcus*.
- vi. **Toxicological Tests:** Bioassay Method For Evaluation of Toxicity Using Fish, Measurement of Toxicity Using *Daphnia* or Other Organism, and Measurement of Toxicity Factor Using Zebra Fish (Dimensionless Toxicity Test).
- vii. **Characterization of Hazardous waste:** Preparation of Leachate (TCLP/Water Extract), Corrosivity, Ignibility (Flash Point) and Measurement of Heavy Metals/Pesticides in the Waste/Leachate.

Contd.

- viii. **Soil/sludge/Sediment and solid waste:** Boron, Cation Exchange Capacity (CEC), Electrical Conductivity, Nitrogen (Available), Organic Carbon/Matter (Chemical Method), pH, Phosphorous (Available), Phosphate (Ortho), Phosphate (Total), Potassium, SAR in Soil Extract, Sodium, Soil moisture, TKN, Calorific Value, Calcium, Calcium Carbonate, Chloride, Exchangeable Sodium Percentage(ESP), Heavy Metal, Magnesium, PAH, Pesticide, Potash (Available) Sulphate, TOC, Total Water Soluble Salt and Water Holding Capacity.
- ix. **Ambient Air/ fugitive emissions:** Nitrogen Dioxide (NO₂), Sulphur Dioxide (SO₂), Total Suspended Particulate Matter, Respirable Suspended Particulate Matter PM₁₀, Ammonia, Carbon Monoxide, Chlorine, Fluoride, Non methane hydrocarbon, Lead, Methane, Ozone, Benzene Toluene Xylene (BTX), Polycyclic Aromatic Hydrocarbon (PAH) Benzo-a-Pyrene and others and PM_{2.5} and Volatile Organic Carbon.
- x. **Stack gases/ source emission:** Particulate Matter, Sulphur Dioxide, Velocity & Flow, Carbon Dioxide, Carbon Monoxide, Temperature, Oxygen, Oxides of Nitrogen, Acid Mist, Ammonia, Chlorine, Fluoride (Particulate) Fluoride (Gaseous), Hydrochloric acid, Total Hydrocarbons, Hydrogen sulphide, and Carbon Disulphide.
- xi. **Noise level:** Noise Level Measurement (20-140 dba) and Ambient Noise and Source Specific Noise.
- xii. **Meteorological:** Ambient Temperature, Wind Direction, Wind Speed, Relative Humidity, Solar Radiation and Rainfall.
3. Further, the following analysts have been approved for recognition as government Analysts.
- Ms. Nandita Das,
 - Dr. Soumyadeep Mukhopadhyay,
 - Sh. Sukanta Palui.
4. The laboratory shall compulsorily participate in the Analytical Quality Exercise conducted by the Central Pollution Control Board (CPCB) to ascertain the capability of the laboratory and analysis carried out and shall submit quarterly progress report to CPCB.
5. The surprise inspection/periodic surveillance of the recognized environment laboratory will be undertaken by CPCB to assess its proper functioning systematic operation and reliability of data generated at the laboratory.
6. It is also mandatory for the laboratory to have requisite accreditations of the **ISO: 17025 (NABL)** and **ISO:45001 (OH&SMS)** and its renewal as per accreditation rules. This recognition is subject to such accreditations and renewals as applicable. The laboratory is required to apply online for further renewal of recognition through CPCB web portal after renewal of the mandatory accreditations / certifications concerned.
7. The laboratory should compulsorily follow the accepted terms and conditions. In case of serious non-compliance of any of the terms and conditions, the laboratory may be black listed for a minimum period of two years and civil/criminal proceedings, as applicable, may be initiated for performing functions on behalf of the Government in an unauthorized manner.

Yours faithfully,

Namita
17/2/2022

(Namita Mishra)

Scientist-D & Divisional Head
Instrumentation laboratory


TRUE COPY

Mitra S. K. Private Limited

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



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

TEST REPORT

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

Report No. : MSK/KTN/2023-24/RO/0049
Date : 06/07/2023
Sample No. : MSKGL/ED/2023-24/06/01071
Date Of Sample : 25/06/2023
Sample Description : RO Water
Sample Mark : BERUI

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

ANALYSIS RESULT

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
01.	Alkalinity (as CaCO ₃)	31	200	600	mg/l	APHA (23rd Edition) 2320B 2017_(O)
02.	Aluminium (as Al)	<0.01	0.03	0.2	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_(O)
03.	Anionic Detergents (as MBAS)	<0.02	0.2	1.0	mg/l	APHA (23rd Edition)5540 C,2017_(O)
04.	Arsenic(as As)	<0.005	0.01	0.05	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_(O)
05.	Barium (as Ba)	<0.05	0.7	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_(O)
06.	Boron (as B)	<0.5	0.5	1.0	mg/l	APHA (23 rd Edition)2540C_(O)
07.	Cadmium (as Cd)	<0.001	0.003	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
08.	Calcium (as Ca)	6.1	75	200	mg/l	APHA (23rd Edition) 3500 Ca B,2017_(O)
09.	Chloride (as Cl)	15	250	1000	mg/l	APHA (23rd Edition)4500-Cl B 2017_(O)
10.	Copper (as Cu)	<0.02	0.05	1.5	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_(O)
11.	Cyanide (as CN)	<0.02	0.05	No Relaxation	mg/l	APHA (23rd Edition)4500 CN- F 2017_(O)
12.	Fluoride (as F)	<0.1	1.0	1.5	mg/l	APHA (23rd Edition)4500 - F C/D, 2017_(O)
13.	Free Residual Chlorine	<0.1	0.2	1.0	mg/l	IS 3025 (Part 26)-1986 Rffm:2014_(O)
14.	Hexavalent Chromium (as Cr+6)	<0.01			mg/l	APHA 23rd Edtn-2017, 3500 Cr B_(O)
15.	Iron (as Fe)	0.14	0.3	No Relaxation	mg/l	APHA (23rd Edition)3500 Fe B 2017_(O)
16.	Lead (as Pb)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
17.	Magnesium (as Mg)	3.6	30	100	mg/l	APHA (23rd Edition) 3500 Mg B,2017_(O)
18.	Manganese (as Mn)	<0.02	0.1	0.3	mg/l	APHA (23rd Edition)3120B 2017 (ICP OES)_(O)

Mitra S. K. Private Limited

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



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

SL. No.	Parameter	Result	DESIRABLE LIMIT	PERMISSIBLE LIMIT	UOM	METHOD
19.	Mercury (as Hg)	<0.001	0.001	No Relaxation	mg/l	IS 3025(Part 48)-1994; Rffm:2014_(O)
20.	Molybdenum (as Mo)	<0.05	0.07	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
21.	Nickel (as Ni)	<0.02	0.02	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
22.	Nitrate (as NO3)	2.2	45	No Relaxation	mg/l	APHA (23rd Edition) 4500- NO3-E, 2017_(O)
23	Phenolic Compounds (as C6H5OH)	<0.001	0.001	0.002	mg/l	APHA (23rd Edition)5530C 2017 (Chloroform Extraction)_(O)
24.	Selenium (as Se)	<0.005	0.01	No Relaxation	mg/l	APHA (23rd Edition)3120B 2017_(O)
25.	Sulphate (as SO4)	3.3	200	400	mg/l	APHA (23rd Edition) 4500-SO4 E 2017_(O)
26.	Total Hardness (as CaCO3)	30	200	600	mg/l	APHA (23rd Edition) 2340 C 2017_(O)
27.	Zinc (as Zn)	<0.02	5	15	mg/l	APHA (23rd Edition)3120B 2017_(O)
28.	E.coli	Not Detectable		NA	/100ml	APHA 23rd Edition 9221 F_(O)
29.	Total coliform bacteria	Not Detectable		NA	MPN/100 ml	APHA 23rd Edition 9221 B_(O)
30.	Colour	<5.0	5	15	Hazen	APHA (23rd Edition) 2120B 2017_(O)
31.	Odour	Agreeable	Agreeable	Agreeable	None	APHA(23rd Edition)2150B_(O)
32.	Total Dissolved Solids (as TDS)	72	500	2000	mg/l	APHA (23rd Edition) 2540C_(O)
33.	Turbidity	<1.0	1	5	N.T.U.	APHA (23rd Edition) 2130B_(O)
34.	pH	7.71 at 25 deg C	6.5-8.5	No Relaxation	None	APHA(23rd Edition) 4500-H-B_(O)

Prepared By:

For Mitra S. K. Private Limited



Authorised Signatory

ANNEXURE R4/31



Tool kit distribution to Youth

Address by CEO to beneficiary

Skill building program



47 women certified by Parisodhna Technologies



Tailoring training to women



Training certificate distribution



Support to DAV SPP school



Roof top solar at school and hospital building

ANNEXURE R4/33



OPD center



Health awareness session



COVID vaccination and distribution of oxygen concentrator and PPE



Awareness on health to TB Patients
Health & Sanitation awareness in surrounding village school, measurement of body weight of students and distribution of sanitiser



Blood donation camp



Distribution of food supplement to TB patients



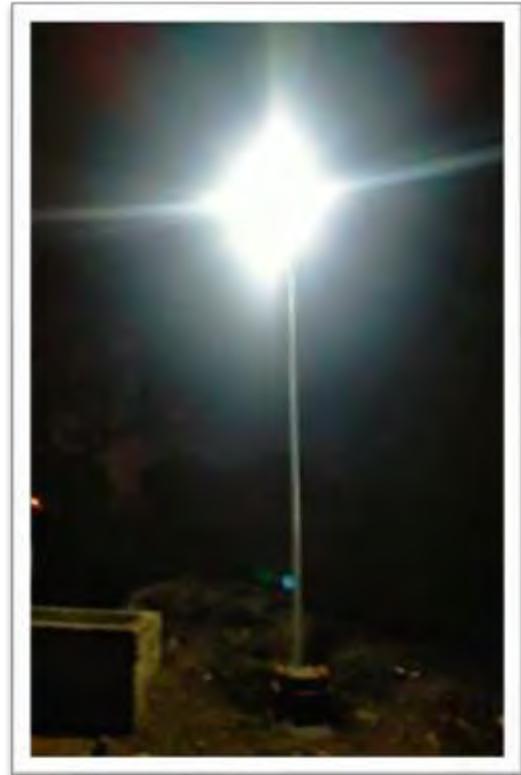
Income, Cast, Domicile, E shram and labour card,



Water treatment plant



Hand pump



Solar street light installed in villages



Repairing of approx 6 km road

Check dam at Jonwat village

From: Kunal Chopra
Sent: 26 July 2023 11:52
To: Consultant Judicial-NGT(P.B.)
Cc: Shri Venkatesh; Aditya Sharma; Jatin Ghuliani; Anant Singh Ubeja; Nehal Jain; Vedant Choudhary; Delhi Office; Sunil; Anshul Kumar
Subject: [Filing by way of e-mail] - OA No. 617 of 2022 - Pushpender vs State of UP & Ors

Dear Sir/Ma'am,

We represent M/s Prayagraj Power Generation Company Limited ("**Respondent No. 4**" / "PPGCL") in the captioned matter which is pending adjudication before the Hon'ble Tribunal.

The captioned matter was taken up for hearing on 16.05.2023, wherein the Hon'ble Tribunal had directed PPGCL to file Additional Reply *qua* its EC/ CTE/CTO conditions along with the activities it has so far carried out in discharge of its Corporate Social Responsibility ("**CSR**") obligations.

Hence, in compliance with the directions passed by the Hon'ble Tribunal *vide* its Order dated 16.05.2023, PPGCL is hereby filing its Additional Reply, the contents whereof are self-explanatory.

Kindly treat this e-mail as a valid medium of filing of the Additional Reply being filed on behalf of PPGCL.

The Counsels on behalf of other Respondents have also been marked in the said email.

Please Note: Due to size constraint, the said Reply has been attached in a OneDrive link which can be accessed hereunder:-

[Additional Reply in OA No. 617 of 2022.2023](#)

This is for your kind information and record.

Best Regards,



Kunal Veer Chopra

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