GMR Warora Energy Limited



Site Office: Plot No. B1 & B7 Mohabala MIDC Growth Centre Post and Tehsil Warora, Dist. Chandrapur Maharashtra - 442 907 CIN U40100MH2005PLC155140 T+91 7176 267009 F+91 7176 267008 W www.gmrgroup.in

Ref: GMR/GWEL/EC/COM/24-25/ 20.05.2024

The APCC F (C.) Ministry of Environment and Forest & Climate Change, RO (WCZ) Ground Floor East Wing, New Secretariat Building Civil Line, Nagpur – 440001 Maharashtra

Subject: EC Compliance Report of GMR Warora Energy Limited 2 x 300 MW (Phase -I & II)

Ref.: 1. MoEF, Environment Clearance Letter J-13011/2/2008-IA. II (T) DATED 19th MAY, 2008
2. MoEF, Environment Clearance Letter J-13011/2/2008-IA. II (T) DATED 4th JUNE, 2009
3. MoEF, Environment Clearance Letter J-13012/75/2008-IA. II (T) DATED 25th MAY, 2010

Respected Sir,

With reference to the above, we are pleased to submit our half yearly Environment Clearance compliance report for Phase I & II of our unit **GMR Warora Energy Limited** situated at MIDC, Warora, Chandrapur for the period of **October 2023 to March 2024**.

Kindly acknowledge the receipt of the same.

Thanking you.

Yours Faithfully, For GMR Warora Energy Ltd.

Dhananjay Deshpande COO-Thermal

Encl.: As Above

CC: 1. The RO, MPCB, Chandrapur, Maharashtra 2. The SRO, MPCB, Chandrapur, Maharashtra

> Registered Office: Piot No. 301, G Block, 7th floor, Naman Centre Bandra Kurla Complex (Opp. Dena Bank) Bandra (East), Mumbai - 400 051 Corporate Office: Building No. 302, New Shakti Bhawan New Udaan Bhawan Complex

Opp. Terminal-3, IGI Airport, New Delhi - 110 037

SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARENCES (EC)

600 (2x300) MW COAL BASED THERMAL POWER PLANT (PHASE – I & II)

At

WARORA, DISTRICT CHANDRAPUR MAHARASHTRA

Submitted to:

Integrated Regional Office, Nagpur Ministry of Environment, Forest & Climate Change, Central Pollution Control Board, New Delhi & Maharashtra Pollution Control Board, Mumbai and Regional Office, Chandrapur



Submitted By EHS DEPARTMENT GMR WARORA ENERGY LIMITED Plot No B-1 | MIDC Growth Centre | PO – Warora | Dist – Chandrapur | Maharashtra-442 907

PERIOD: OCTOBER' 2023 – MARCH' 2024

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Compliance Status on Environmental Clearance

Phase—I (1x 300 MW): ISSUED BY MOEF VIDE LETTER No J-13011/2/2008-IA.II (T) DATED

19th MAY, 2008

and LETTER No J-13011/2/2008-IA.II (T) DATED 4th JUNE, 2009

SI. No	Terms and Conditions	Compliance Status
1	The total land requirement for the project shall be restricted to 114 ha	Complied. Total land requirement is restricted to 114 ha only.
		Being Complied.
2	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.5% and 44% respectively	The average Sulphur & ash content in coal are 0.34% & ash content is 34.31% respectively during reporting period.
3	A bi-flue stack of 220 m height with continuous online monitoring Equipment's for SOx, NOx and Particulate matter shall be provided. Exit velocity of flue gases shall not be less than 25 m/sec	A bi-flue stack of 275 m height with continuous online monitoring system for SO _x , NO _x and Particulate matter is duly provided. Exit velocity of flue gases is being maintained above 25 m/sec.
4	High efficiency Electrostatic Precipitator (ESPs) shall be installed to ensure that particulate emission does not exceed 100 mg/Nm ³	High efficient Electrostatic Precipitators (ESPs) is installed with 99.98% efficiency to ensure that emission of particulate matter are always maintained below 50 mg/Nm3. The monitoring reports are enclosed as Annexure – 1
5	Fly ash shall be collected in dry form and its 100% utilization shall be ensured from day one. Bottom ash shall be disposed in conventional slurry mode in the ash pond	Complied. 03 Numbers of silos having capacity 1500 MT established for collection of dry ash for end users. Bulker loading facility developed under the silos for bulk ash dispatch to cement manufacturing plants. Facility also developed for loading of railway rake. Please refer Annexure-2 .
6	Ash pond shall be lined with suitable impervious lining. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached	Bottom of the ash pond compacted at high dry density soil and provided with 600mm impervious clay lining. Sides of the ash pond lined with HDPE lining and tiles. Ash pond provided with garland drains to collect run-off water and seepages if any from the pond. Ash water recovery system i.e. the supernatant is collected and treated in settling tank and routed to ash handling system.
7	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	Adequate air pollution control measures such as dust extraction system (bag filters followed by Cyclone) in the coal crusher and coal conveying transfer points (JNTs). Rain gun type dust suppression system in coal yard and dry fog type dust suppression system in belt conveyor have been provided.
8	Water requirement shall not exceed 830 m3/hr	Water requirement is well within prescribed limit of 830 m3/hr. during the reporting period.
9	Closed cycle cooling system with cooling towers shall be provided. The effluent shall be treated to conform to the prescribed norms	Complied. Induced draft cooling tower (IDCT) is being constructed. Amendment to shift from Natural draft cooling tower (NDCT) to IDCT, MOEF (Gol). Vide letter no. J-13012/75/ 2008-1A.II (T), dated 30th November, 2010. State of art ETP is in operation in which Effluent are treated to meet the prescribed norms.

10	The treated effluents conforming to the prescribed standards shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon for storm water. Arrangements shall be made so that effluents and storm water do not get mixed	All the effluent treated adequately & is being reused within the plant. The concept of "Zero Liquid Discharge" implemented except during monsoon period. Separate drainage network established for storm waste
11	A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/plantation	Sewage Treatment Plant (STP) with the capacity of 25 KLD has been installed and is in operation to take care of domestic effluents. Treated water from STP is used in Green Belt Development activities/plantation.
12	Regular monitoring of ground water in and around the ash pond area shall be carried out, records maintained and six monthly reports shall be furnished to the Regional Office of this Ministry	Regular Monitoring of ground water in and around the ash pond area is being carried out and analysis results of the same are also submitted to MPCB and MoEF & CC regional office on quarterly basis. Annexure – 3
13	Rainwater harvesting should be adopted. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished	Rain Water harvesting system is in place as per the recommendation by ground water board for ground water recharge. 17273 m3 of rainwater were harvested in fiscal year 2023-24. Regular monitoring of ground water level is done through piezometers. Water Level Data is also submitted Six Monthly to CGWA. Annexure-4
14	A green belt of adequate width and density shall be developed around the plant periphery covering about 42 ha of project area preferably with local species	41% of plant area is under green belt, with more than 95% survival rate in and around the periphery and open land of the plant premises. Additionally, organic farming is also carried out along with fruit bearing plants. Please refer Annexure-5 for green belt development.
15	LeQ of Noise levels emanating from turbines shall be limited to 75 dB. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as steam & gas turbines, 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. Noise generating from turbines are well within the prescribed limits. Personal protective Equipment's like earplugs/ear muffs etc. are provided to people working in the high noise area. Periodic medical checkup conducted for workers engaged in noisy areas such as turbine area, air compressors etc. and their audiometric records are also maintained.
16	A plan for conservation of fauna reported in the study area shall be prepared in consultation with state forests and wildlife depart within 3 months and shall be implemented immediately	Complied. GIB and other Schedule-1 wildlife conservation plan for EMCO Energy Ltd for Rs. 24.91 Lakhs has been prepared by Divisional Forest officer, Chandrapur vie letter No:Desk- 5/survey/Land/2128/ 2013-14, dated 19.03.2014 as per guidelines of Ministry of Environment and forest, New Delhi on the basis of plan sanctioned by P.C.C.F.(Wildlife), M.S, Nagpur. Ref No:-Desk-WL/22(6)/CR69/5370/ 13-14, Nagpur Dated 07.03.2014. As per demand letter No: Desk- 5/Survey/Land/2268 dated 26/03/2014 received from Divisional Forest officer- Chandrapur, EMCO Energy Ltd. deposited the amount of Rs. 24.91 in Ad-hoc Compensatory Afforestation Fund Management & Planning Agency (CAMPA)Savings Bank A/c No: SB 01025218 Corporation bank, Lodhi Road, New Delhi IFSC Code- CORP0000371 through RTGS on date 08/07/2014. The UTR no. for the payment done is "BRN-RTGS-UTIBH14189021366-AD HOC COMPENS". Lakhs in CAMPA.

17	Regular monitoring of ground level concentration of SO ₂ , NOx, Hg, SPM and RSPM shall be carried out in the impact zone and records maintained. If at any stage, these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Six monthly reports shall be submitted to the Regional Office of this Ministry at Bhopal.	
18	Appropriate safeguard measures shall be taken to guard against fire hazards in coal storage area. DMP shall be prepared to handle such situation.	Fire Hydrant system and water monitors are installed around coal stock yard to safeguard against fire incident. The systems are maintained in pressurized condition through Fire water pump house for ready to use. DMP is in place.
19	The Project proponent shall advertise 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 the clearance letter, informing that the project has been accorded EC and copies of clearance letter are available with the state pollution control board/committee and may be also be seen at website of the MoEF at http://envfor.nic.in	Complied
20	A separate Environment Management Cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards	 Environment Management Cell is in place lead by General Manager & supported by qualified Environment Engineers and Horticulturist team for implementation & compliance of environmental standards. Environmental Management System (Standard - ISO 14001:2015) implemented under Integrated Management System
21	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Ministry/ Regional Office/CPCB/SPCB	We are regularly submitting six monthly compliance reports to the Board and ministry as per the guidelines. Last report was submitted on 28 th Oct 2023.
22	Regional Office of the Ministry of Environment & Forests located at Bhopal will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring	Noted
23	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	Being Complied. We have allocated separate budget for Environment Management for implementation of environmental protection measures from which various environmental works is carried out. The budget is solely dedicated for the purpose of Environment Management only.

Sr. No	Terms and Conditions	Action to be Taken
1	An amount of Rs.1.6 Crores as capital and Rs.30 Lakhs as recurring expenditure per annum should be earmarked for taking up activities under CSR.	Being Complied
2	Copy of conservation plan of fauna in the study area, reported to be prepared, should be submitted to the Ministry within 15 days of the issue of this letter.	GIB and other Schedule-1 wildlife conservation plan fo EMCO Energy Ltd for Rs. 24.91 Lakhs has been prepared by Divisional Forest officer, Chandrapur vie lette No:Desk-5/survey/Land/2128/ 2013-14, dated 19.03.2014 as per guidelines of Ministry of Environmen and forest, New Delhi on the basis of plan sanctioned by P.C.C.F.(Wildlife), M.S, Nagpur. Ref No:-Desk WL/22(6)/CR69/5370/ 13-14, Nagpur Dated 07.03.2014. As per demand letter No: Desk 5/Survey/Land/2268 dated 26/03/2014 received from Divisional Forest officer- Chandrapur, EMCO Energy Ltd deposited the amount of Rs. 24.91 in Ad-hoo Compensatory Afforestation Fund Management & Planning Agency (CAMPA)Savings Bank A/c No: SH 01025218 Corporation bank, Lodhi Road, New Delhi IFSC Code- CORP0000371 through RTGS on date 08/07/2014 The UTR no. for the payment done is "BRN-RTGS UTIBH14189021366-ADHOC COMPENS". Lakhs in CAMPA.
3	First aid and sanitation arrangements shall be made for the drivers and the contract workers during construction phase.	Full-fledged Occupational Health Centre with experienced MBBS Doctor and Paramedic Staff is operational in the plant for first aid arrangement Ambulance is available round the clock. Well devised schedule is developed for carrying out the sanitization of the plant areas.
4	Regular monitoring of ground level concentration of SOx, NOx, Hg, SPM and RSPM shall be carried out in the impact zone and records maintained. If at any stage, these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	Regular Monitoring of ground level concentration of SO ₂ NOx, PM2.5, PM10 & CO is carried out by MoEF & CC & NABL accredited Lab and reports were submitted to MPCB on monthly basis. Please refer Annexure – 6 enclosed for monthly Ambient Air Quality monitoring reports.
5	Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied

UNIT-I: ISSUED BY MOEF VIDE LETTER No J-13011/2/2008-IA.II(T) DATED 4th JUNE, 2009

6	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 be sent to the Regional office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels, namely SPM, RSPM, SO2, NOx (ambient levels as well as stack emissions) or critical sectorial parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Six monthly EC compliance report are regularly submitted to MoEF & CC regional office as well as to regional offices of MPCB The pollutant levels, namely SPM, RSPM, SO2, NOx (ambient levels as well as stack emissions) are being monitored and displayed at the main gate of the company and also in the public domain through the company website.
7	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by email) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.	We are regularly submitting six monthly compliance reports to the Board and ministry as per the guidelines. Last report was submitted on 28 th Oct 2023.
8	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 and ambient levels of NOx) will be displayed at the main gate of the power plant.	Six monthly EC compliance report are uploaded in the company website and updated time to time. The criteria pollutant levels, namely SPM, RSPM, SO2, NOx (ambient levels as well as stack emissions) are being monitored and displayed at the main gate of the company continuously.

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Compliance Status on Environmental Clearance

Phase—I (1x 300 MW): ISSUED BY MOEF&CC VIDE LETTER No J J-13012/75/2008-IA.II (T) DATED 25th MAY, 2010

Sr. No	Terms and Conditions	Compliance Status
A. Spec	ific Conditions.	
1	Environmental clearance is subjected to submission of a time bound implementation of a wildlife conservation plan particularly with respect to protection of great Indian Bustard and other Schedule-1 species, to be prepared in consultation with the office of the Chief Wildlife Warden concerned and the Wildlife Institute of India. The plan shall have an in-built monitoring mechanism and annual audit, report of which shall be submitted to the Regional Office of the Ministry and concerned department in the state government.	GIB and other Schedule-1 wildlife conservation plan for GMR Warora Energy Ltd. of Rs. 24.91 Lakhs has been prepared by Divisional Forest officer, Chandrapur, letter No: Desk-5/survey/Land/2128/ 2013-14, dated 19.03.2014 as per guidelines of Ministry of Environment and forest, New Delhi on the basis of plan sanctioned by P.C.C.F.(Wildlife), M.S, Nagpur. Ref No:- Desk-WL/22(6)/CR69/5370/ 13-14, Nagpur Dated 07.03.2014. As per demand letter No: Desk- 5/Survey/Land/2268 dated 26/03/2014 received from Divisional Forest officer- Chandrapur, EMCO Energy Ltd. deposited the amount of Rs. 24.91 in Ad- hoc Compensatory Afforestation Fund Management & Planning Agency (CAMPA) Savings Bank A/c No: SB 01025218 Corporation bank, Lodhi Road, New Delhi IFSC Code- CORP0000371 through RTGS on date 08/07/2014. The UTR no. for the payment done is "BRN-RTGS-UTIBH14189021366-AD HOC COMPENS". Lakhs in CAMPA.
2	It shall be ensured that the natural drainage in the region is not disturbed due to activities associated with operation of the plant.	Complied. Proper care has been taken to ensure that the natural drainage in the region is not disturbed due to activities with operation of the plant.
3	Provision for installation of FGD shall be provided. High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm3. 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.	Noted. Space for installation of FGDs have been provided since construction stage. As per MoEF&CC' Notification dated 05.09.2022, GiaJE TPP is falling under Category "C" Non-retiring TPP & the timelines for compliance of SO2 emission is up to December 2026. Accordingly, the work is under progress & will be installed within the schedule. ESP designed efficiency of 99.98% (ESPs of 10 fields) installed for each boiler to meet permissible norm for particulate emission of less than 50 mg/Nm3 Adequate dust extraction system installed in coal bunker and dry fog type dust suppression system provided at wagon tipplers, coal stock piles, crusher house, and transfer houses to take care of fugitive
4	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 (PM2.5 & PM10), S02, NOx (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	Being Complied. Six monthly EC compliance report are uploaded in the company website and updated time to time. The criteria pollutant levels, namely SPM, RSPM (PM2.5 & PM10), S02, NOx (ambient levels as well as stack emissions) are being monitored and displayed at the main gate of the company continuously.

5	No irrigation and drinking water requirements out of the	Being Complied.
6	Barrage / reservoir shall be diverted for the power plant. No ground water shall be extracted for use in operation of the power plant even in lean season.	Being Complied. Plant is getting water from MIDC, warora for requirements.
7	Hydro-geological study of the area shall be reviewed annually and results submitted to the Ministry and concerned agency in the State Govt. In case adverse impact on ground water quantity and quality is observed, immediate mitigating steps to contain any adverse impact on ground water shall be undertaken.	Hydrogeological study of the area is being carried ou in annual basis and report submitted to Ministry and state board. No adverse impact is observed is ground water quantity and quality. Hydrogeological study report was submitted on 23 ^r Mar. 2024. Please refer Annexure – 7 .
8	Minimum required environmental flow suggested by the Competent Authority of the State Govt. shall be maintained in the Channel/ Rivers even in lean season.	Plant is getting water from MIDC, Warora. Minimum required environmental flow suggested by the irrigation department is being well maintained in the channel rivers even in lean season.
9	Rainwater harvesting should be adopted. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished.	Rain Water harvesting system is in place as per the recommendation by ground water board for ground water recharge. 17273 m3 of rainwater were harvested in fiscal year 2023-24. Regular monitoring of ground water level is done through piezometers. Water Level Data is also submitted Six Monthly to CGWA. Annexure-4
10	Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	Soil for levelling of the site is generated within the site in order to well protect the natural drainage system o the area.
11	Utilization of 100% Fly Ash generated shall be made from 4 th year of operation of the plant. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	Effective Utilization of Fly ash is in place and same is being sent to the nearby cement manufacturing units & also to brick manufacturers. Ash utilization status is convened to state board regularly.
12	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed of 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 as also in the effluents emanating from the existing ash pond. No ash shall be disposed of in low lying area.	Complied. 03 Numbers of silos having capacity 1500 MT established for collection of dry ash for end users. Bulker loading facility developed under the silos for bulk ash dispatch to cement manufacturing plants. Facility also developed for loading of railway rake. Please refer Annexure-2 .
13	Ash pond shall be lined with HDP/LDP lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.	Bottom of the ash pond compacted at high dry density soil and provided with 600mm impervious clay lining. Sides of the ash pond lined with HDPE lining and tiles. Ash pond provided with garland drains to collect run- off water and seepages if any from the pond. Ash water recovery system i.e. the supernatant is collected and treated in settling tank and routed to ash handling system is in place.
14	For disposal of Bottom Ash in abandoned mines (if proposed to be undertaken) it shall be ensured that the bottom and sides of the mined out areas are adequately lined with clay before Bottom Ash is filled up. The project proponent shall inform the State Pollution Control Board well in advance before undertaking the activity.	Noted

		Compliad
15	Closed cycle cooling system with natural draft cooling towers shall be provided. The effluents shall be treated as per the prescribed norms.	Complied. Induced draft cooling tower (IDCT) is being constructed. Amendment to shift from Natural draft cooling tower (NDCT) to IDCT, MOEF (Gol). Vide letter no. J-13012/75/2008-1A.II (T), dated 30th November 2010. State of art ETP is in operation in which Effluent are treated to meet the prescribed norms.
16	Shelter Belt consisting of 3 tiers of plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not less than 2500 per ha with survival rate not less than 70 %. To meet the expenditure of development of this, Shelter Belt, a Green Endowment Fund shall be created out of EMP budget and status of implementation shall be submitted to the Regional Office of the Ministry from time to time.	Complied
17	A good action plan for R&R (if applicable) with package for the project affected persons be submitted and implemented as per prevalent R&R policy within three months form the date of issue of this letter.	Project is in industrial area of MIDC, Warora. Hence not applicable.
18	An amount of Rs 12.0 Crores shall be earmarked as one-time capital cost for CSR program. Subsequently a recurring expenditure of Rs 2.5 Crore per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one month along with road map for implementation.	Being Complied. CSR works carried out by the plant is attached as Annexure- 8.
19	As part of CSR program the company shall conduct need based assessment for the nearby villages to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people besides development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such program. Company shall provide separate budget for community development activities and income generating program. This will be in addition to vocational training for individuals Imparted to take up self-employment and jobs. In addition to above a special scheme for upliftment of SC/ST's and marginalized farmers population in the study area out of CSR program shall be formulated and submitted to the Ministry within six months along with firm commitment of implementation. The scheme shall have an in-built monitoring mechanism.	Activities being taken up for the upliftment of SC/ST's and marginalized farmers and poor section of the society. CSR activities is vigorously carried out by the project proponent through its wing Varalakshmi Foundation. Details of the CSR activities being carried out is attached for reference. (Annexure-8)
B. Gene	ral Conditions:	
1	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 do not get mixed.	The treated effluents conforming to the prescribed standards are recirculated and reused within the plant. Arrangement has been made to ensure zero discharge outside the plant boundary except during monsoon.

2	A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/plantation.	Sewage Treatment Plant with the capacity of 25 KLD has been installed. Treated water from STP is being use in green Belt development/ plantation. Treated Effluent Analysis Reports of last six months is attached as Annexure - 9
3	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office.	Adequate Fire Hydrant system and water monitors are installed around coal stack yard to check/minimize spontaneous fires in coal yard. The system is always in pressurized condition through Fire water pump house to deal with any situation.
4	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 content 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.	Storage facilities for auxiliary liquid fuel such as LDO are made in the plant area in consultation with Department of Explosives, Nagpur. Storage license obtained. Sulphur content in the liquid fuel is not exceeding 0.5%. Disaster Management Plan is prepared to meet any eventuality in case of an accident taking place due to storage of oil.
5	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	Regular Monitoring of ground water in and around the ash pond area is being done and analysis report of the same are also submitted to state board on regular basis. Heavy metals are being analyzed in the ash pond water and report shared with concerned authorities.
6	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase	Full-fledged medical Centre with experienced MBBS Doctor and Paramedic Staff are deployed in the plant for efficient First Aid.
7	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 db. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, 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	Noise levels from turbines are controlled and are well within the limits. Personal protective Equipment's like earplugs/ear muffs etc. are provided for people working in the high noise area. Periodic medical checkup conducted for workers engaged in noisy areas such as turbine area, air compressors etc. Audiometric record maintained. Ambient and Work Zone Noise Monitoring reports. (Annexure-10)
8	Regular monitoring of ground level concentration of SOx. NOx, PM 2.5 & PM10 and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	Regular Monitoring of ground level concentration of SO ₂ , NOx, PM2.5, PM10 & CO is carried out by MoEF & CC & NABL accredited Lab and reports were submitted to MPCB on monthly basis. Please refer Annexure – 6 enclosed for monthly Ambient Air Quality monitoring reports.
9	Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied

10	The project proponent shall advertise 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 Website of the Ministry of Environment and Forests at http://envfor.nic.in.	Complied. Published in Local Newspaper- Hidwada and Lokmat on 30th May, 2010. Copy of the same is already submitted with first half yearly report vide letter no EMCO/SITE/MoEF/001, 28th August, 2010
11	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad, Municipal Corporation, Urban local Body and the Local NGO, if 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 project proponent	Plant is located in notified industrial area (MIDC) Environment Clearance letter is uploaded on the website of the company.
12	A separate Environment Management Cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	 Environment Management Cell is in place lead by General Manager & supported by qualified Environment Engineers and Horticulturist team fo implementation & compliance of environmental standards. Environmental Management System (Standard - ISO 14001:2015) implemented under Integrated Management System Vermicomposting Unit Established fo recycling of Green Waste (Annexure - 11).
13	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.	Being complied. Six monthly reports on the status of compliance of the stipulated EC conditions includin results of monitoring data are being submitted to the respective regional office of MoEF & CC & the state board.
14	The environment statement for each financial year ending 31st March in Form V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of the Ministry by e mail.	Being complied. The environment statement for each financial year is submitted regularly. Last Environmen statement submitted on 29 th Sep 2023. Six monthly reports on the status of compliance of the stipulated EC conditions including results o monitoring data are being submitted to the respective regional office of MoEF & CC & the state board.
15	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.	Being complied. Six monthly reports on the status o compliance of the stipulated EC conditions including results of monitoring data are being submitted to the respective regional office of MoEF & CC & the state board. Last Six monthly compliance report was submitted on 27 th Apr 2023.

16	Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.	Noted.
17	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.	Control Measures for implementation of environment
18	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 the dates of start of land development work and commissioning of plant.	 Date of Financial closure of the project: October 2009. Final approval by the Concerned authorities: 1) Letter of support from Govt. of Maharashtra dated 1st May 2007 is already submitted with First Compliance report. 2) Environment clearance letter MoEF submitted. 3) Date of start of land development work: June 2010. 4) Unit-I COD- March 2013. 5) Unit-II COD- September 2013.
19	Full cooperation shall be extended to the Scientists/Officers from the Ministry/Regional Office of the Ministry at Bangalore, CPCB/ SPCB who would be monitoring the compliance of environmental status.	Noted.
20	The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. The Ministry may also impose additional environmental conditions or modify the existing ones, if necessary.	Noted.
21	The environmental clearance accorded shall be valid for a period of 5 years to start operations by the power plant.	Noted.
22	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986	Noted.
23	In case of any deviation or alteration in the project proposed, including coal transportation system from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.	Noted.

24	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.	Noted.
25	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred, within 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.	Noted.

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TEST REPORT

	La construction of a second					
	Report No.:	ME-0550231008	Date: 13.10.2023			
ULR No. TC748723000016200F		TC748723000016200F				
Name and Address of Customer	Plot No. B-1, M	ENERGY LIMITED. Iohabata, MIDC Growth Tehsil: Warora, our (M.S.)	-2.7.40-47.0 · · · · · · · · · · · · · · · · · · ·	169725		
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory			
Sampling Location	Unit # I	Sample Quantity / Packing	Thimble: 1 X 1 N SO ₂ :30 mL X 1 N NOx:25 mL X 1 N O ₂ :2L X 1 No. Gi Hg:200mL X 2 N	Vo. PVC Bottle No. PVC Bottle as Bladder		
Date of Sampling	07.10.2023	Date of Receipt of Sample	08.10.2023			
Sampling Procedure	As per method r	reference				
Date of Start of Analysis	09.10.2023	Date of Completion of Analysis	11.10.2023			

Stack Details		
Stack Identity	Unit-I	
Stack attached to	ESP Outlet	
Material of construction	RCC	
Stack height above ground level (Meter)	275	
Stack Diameter (Meter)	5.0	
Stack shape at top	Round	
Type of fuel	Coal	
Fuel Consumption (L/h)		
Load at the time of monitoring (MW)	*	
Time of Monitoring (h)	10:45 to 11:15	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
9	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	0C	129	\$	IS 11255 (Part 3) 2008
2	Flue gas Velocity	m/s	25.0	÷	IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm ⁹ /h	1233801	5	IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ³	33	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO ₂)	mg/Nm ³	1084	600	IS 11255 (Part 2):1985
6	Oxides of Nitrogen (NOx)	mg/Nm ²	333	450	IS 11255 (Part 7): 2005

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TEST REPORT



Report No .: ME-0550231008 Date: 13.10.2023 ULR No .: TC748723000016200F Sr. No. Parameter Unit Result #Limit Method Reference CPCB Guidelines on Methodologies Mercury mg/Nm³ 0.0027 0.03 max. for Measurement of source emission monitoring LATS/80/2013-14

8.2

IS 13270:1992

END OF REPORT

Note: **BQL: Below Quantification Limit** 1

Oxygen (O2)

2. LOQ: Limit of Quantification

- 3. # Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr.No. 25)
- 4. Results of SO2, NOx & PM are corrected to 6% O2, on dry basis.
- The result listed refers only to the tested sample(s) and applicable parameter(s).

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TEST REPORT

	Report No :	ME-0551231008		Date: 13.10.2023
首切见	ULR No .:	TC748723000016201F		See.
Name and Address of Customer	Plot No. B-1, M	ENERGY LIMITED. Iohabala, MIDC Growth Tehsil: Warora, bur (M.S.)	1153 TO 12700 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	169725
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory	
Sampling Location	Unit # II	Sample Quantity / Packing	Thimble: 1 X 1 N SO ₂ :30 mL X 1 N NOx:25 mL X 1 N Oz:2L X 1 No. Gi Hg:200mL X 2 N	No. PVC Bottle No. PVC Bottle as Bladder
Date of Sampling	07 10 2023	Date of Receipt of Sample	08.10 2023	
Sampling Procedure	As per method r	referance		
Date of Start of Analysis	09.10.2023	Date of Completion of Analysis	11.10.2023	

Stack Details		
Stack Identity	Unit -II	
Stack attached to	ESP Outlet	
Material of construction	RCC	
Stack height above ground level (Meter)	275	
Stack Diameter (Meter)	5.0	
Stack shape at top	Round	
Type of fuel	Coal	
Fuel Consumption (L/h)		
Load at the time of monitoring (MW)		
Time of Monitoring (h)	11:30 to 12:00	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
ŧ	Flue gas Temperature	0C	131	2	IS 11255 (Part 3) 2008
2	Flue gas Velocity	m/s	25.1	÷	IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm ³ /h	1232604		IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ³	34	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO ₂)	mg/Nm ³	1130	600	IS 11255 (Part 2):1985
6	Oxides of Nitrogen (NOx)	mg/Nm ³	339	450	IS 11255 (Part 7): 2005

Page 1 of 2 QF/SALE/04 Issue No 03 Date 05 12 2019 Amd 03 Date 18.07 2023 Reviewed and authorised by

Harish Mendhi **Technical Manager** Chemical Testing







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TEST REPORT



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Report No. ME-0551231008 Date: 13.10.2023 ULR No.: TC748723000016201F Sr. No. Parameter Unit Result #Limit Method Reference CPCB Guidelines on Methodologies mg/Nm² 0.0025 0.03 max. Mercury for Measurement of source emission maniforing LATS/60/2013-14 % 8.0 IS 13270:1992 Oxygen (O2) END OF REPORT

1. BOL: Below Quantification Limit. Note:

2. LOQ: Limit of Quantification

Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr.No. 25)

4. Results of SO₂, NOx & PM are corrected to 6% O₂, on dry basis.

The result listed refers only to the tested sample(s) and applicable parameter(s).

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TEST REPORT

SAME .	Report No .:	ME-1868231029		Date: 03.11.2023
	ULR No.:	TC748723000017424F		101
Name and Address of Customer	Plot No. B-1, I	A ENERGY LIMITED. Achabala, MIDC Growth L Tehsil: Warora, pur (M.S.)		169725 2023
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory	
Sampling Location	Unit#1	Sample Quantity / Packing	Thimble: 1 X 1 N SO ₂ :30 mL X 1 N NO _X :25 mL X 1 O ₂ :2L X 1 No. G Hg:200mL X 2 N	No. PVC Bottle No. PVC Bottle as Bladder
Date of Sampling	28.10.2023	Date of Receipt of Sample	29.10.2023	
Sampling Procedure	As per method	reference		
Date of Start of Analysis	30.10.2023	Date of Completion of Analysis	02.11.2023	

Stack Details		
Stack Identity	Unit -I	
Stack attached to	ESP Outlet	
Material of construction	RCC	
Stack height above ground level (Meter)	275	
Stack Diameter (Meter)	5.0	
Stack shape at top	Round	
Type of fuel	Coal	
Fuel Consumption (L/h)		
Load at the time of monitoring (MW)		
Time of Monitoring (h)	11:05 to 11:35	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
9	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	0C	128	2.	IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	25.0		IS 11255 (Part 3)/2008
3	Flue gas Flow Rate	Nm³/h	1251614		IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ³	32	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO ₂)	mg/Nm ³	1150	600	IS 11255 (Part 2):1985
6	Oxides of Nitrogen (NOx)	mg/Nm ²	328	450	IS 11255 (Part 7): 2005

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TEST REPORT

12-14-14-14-14-14-14-14-14-14-14-14-14-14-				ME-1868231029			
D).E	2	ULR No :	TC7487230000	17424F			
Sr. No.	Parameter		Unit	Result	#Limit	Method R	leference
7	Mercury		mg/Nm ³	0.0029	0.03 max.	for Measu	idelines on Methodologies irement of source emission g LATS/80/2013-14
8	Oxygen (O ₂)		%	8.0	(;a)	IS 13270:	1992
			END OF R	EPORT			

Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification
- 3. #. Limit as per Environmental protection Rule 1986, Arnd Rules 2015 (Schedule-I Sr.No. 25)
- 4. Results of SO2, NOx & PM are corrected to 6% O2, on dry basis.
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

- 20	120 100X I			
	Report No.:	ME-1869231029		Date: 03.11.2023
ШW:Bi	ULR No.:	TC748723000017425F		
Name and Address of Customer	Plot No. B-1, N	A ENERGY LIMITED. Iohabaia, MIDC Growth Tehsil: Warora, our (M.S.)	SO No: 4800 SO Date: 10.04	169725 2023
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory	
Sampling Location	Unit # II	Sample Quantity / Packing	Thimble: 1 X 1 N SO ₂ :30 mL X 1 N NOx:25 mL X 1 O ₂ :2L X 1 No. G Hg:200mL X 2 N	No. PVC Bottle No. PVC Bottle as Bladder
Date of Sampling	28.10.2023	Date of Receipt of Sample	29.10.2023	
Sampling Procedure	As per method	reference		
Date of Start of Analysis	30.10.2023	Date of Completion of Analysis	02.11.2023	

Stack Details		
Stack Identity	Unit -II	
Stack attached to	ESP Outlet	
Material of construction	RCC	
Stack height above ground level (Meter)	275	
Stack Diameter (Meter)	5.0	
Stack shape at top	Round	
Type of fuel	Coal	
Fuel Consumption (L/h)		
Load at the time of monitoring (MW)		
Time of Monitoring (h)	11:50 to 12:20	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
9	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	°C	129	*	IS 11255 (Part 3) 2008
2	Flue gas Velocity	m/s	25.0	2	IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm ³ /n	1250782	÷	IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ³	30	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO ₂)	mg/Nm ³	1131	600	IS 11255 (Part 2):1985
6	Oxides of Nitrogen (NOx)	mg/Nm ³	335	450	IS 11255 (Part 7): 2005

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TEST REPORT

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0.1	5	Report No.:	ME-186923102	9		Date: 03.11.2023
可知思	H .	ULR No.:	C748723000017425F			51
Sr. No.	Parameter		Unit	Result	#Limit	Method Reference
7'	Mercury		mg/Nm ³	0.0030	0.03 max.	CPCB Guidelines on Methodologies for Measurement of source emission monitoring LATS/80/2013-14
8	Oxygen (O ₂)		96	8.0	24	IS 13270-1992

END OF REPORT

Note: 1. BQL Below Quantification Limit

- 2. LOQ: Limit of Quantification
- 3. # Limit as per Environmental protection Rule 1986, Arnd Rules 2015 (Schedule-I Sr.No. 25)
- 4. Results of SO₂, NO_x & PM are corrected to 6% O₂, on dry basis.
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

国旗法国					100
	Report No.	ME-0350231	104		Date: 09.11.2023
回到见	ULR No.: TC748723		0017815F		1581
Name and Address of Customer	Plot No. B-1, M Center, Post 8	MR WARORA ENERGY LIM lot No. B-1, Mohabala, MIDC enter, Post & Tehsil: Warora list: Chandrapur (M.S.)			4,2023
Sample Description / Type	Stack Emission	Sampling Done by		Laboratory	
Sampling Location	Unit #1	Sample Quantity / Packing		Thimble: 1 X 1 No. SOz 30 mL X 1 No. PVC Bottle NOx 25 mL X 1 No. PVC Bottle Oz 2L X 1 No. Gas Bladder Hg:200mL X 2 No. PVC Bottle	
Date of Sampling	03.11.2023	Date of Receipt of Sample		04.11.2023	
Sampling Procedure	As per method	As per method reference			
Date of Start of Analysis	04 11 2023	04.11.2023 Date of Cor Analysis		09.11.2023	
Stack Details					
Stack Identity			Unit -I		
Stack attached to			ESP Outlet		
Material of construction			RCC		
Stack height above gro		1	275		
Stack Diameter (Meter	2		5.0		

and the second s	
Stack shape at top	Round
Type of fuel	Coal
Fuel Consumption (L/h)	(1)
Load at the time of monitoring (MW)	(a)
Time of Monitoring (h)	11:00 to 11:30

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
el?	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	PC	128	245	IS 11255 (Part 3) 2008
2	Flue gas Velocity	m/s	25.0	292	IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm³/h	1236877	-	IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ³	36	50	IS 11255 (Part 1) 1985
5	Sulphur Dioxide (SO2)	mg/Nm ²	1069	600	IS 11255 (Part 2) 1985
6	Oxides of Nitrogen (NOx)	mg/Nm ³	345	450	IS 11255 (Part 7): 2005

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TEST REPORT

No:: TC748723000	Result	#Limit	Method Reference
	The Presence of	HUTUNNES	Method Reference
mo/Nm?	245 TAN IN 19 18		
	0.0031	0.03 max	CPCB Guildelines on Methodologies for Measurement of source emission monitoring LATS/80/2013-14
36	7.8		15 13270 1992
		% 7.8 END OF REPORT	

Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification
- 3. # Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr.No. 25)
- 4. Results of SO2, NOx & PM are corrected to 6% O2, on dry basis
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

		IESI K	EFORI		- A	
2333	Report No 1	ME-035123110	4		Date: 09.11.2023	
in the second	ULR No :	TC748723000017816F			100	
Name and Address of Customer	GMR WARORA Plot No. B-1, M Center, Post & Dist: Chandrap	ohabala, MIDO Tehsil: Waror	Growth	2 m2 to 32 for \$2 m2 m 172 m/2	0169725	
Sample Description / Type	Stack Emission	Sampling Done by		Laboratory		
Sampling Location	Unit # II	Sample Quantity / Packing		Thimble: 1 X 1 No. SO2:30 mL X 1 No. PVC Bottle NO2:25 mL X 1 No. PVC Bottle O2:2L X 1 No. Gas Bladder Hg:200mL X 2 No. PVC Bottle		
Date of Sampling	03.11.2023	Date of Receipt of Sample		04.11.2023		
Sampling Procedure	As per method r	eference				
Date of Start of Analysis	04.11.2023	Date of Completion of Analysis		09.11.2023		
Stack Details						
Stack Identity			Unit -II			

Stack Details	
Stack Identity	Unit -II
Stack attached to	ESP Outlet
Material of construction	RCC
Stack height above ground level (Meter)	275
Stack Diameter (Meter)	5.0
Stack shape at top	Round
Type of fuel	Coal
Fuel Consumption (L/h)	17).
Load at the time of monitoring (MW)	
Time of Monitoring (h)	11:50 to 12:20

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	ⁿ C	129	(#C	IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	25.0	082	IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm ³ /h	1233801	4	IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ³	39	50	IS 11255 (Part 1): 1985
5	Sulphur Dioxide (SO ₂)	mg/Nm ³	1116	600	IS 11255 (Part 2):1985
6	Oxides of Nitrogen (NOx)	mg/Nm ³	363	450	IS 11255 (Part 7): 2005

Page 1 of 2 QF/SALE/04 Issue No 03 Date 05 12 2019 Amd 03 Date 18.07.2023 Reviewed and authorised by







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TEST REPORT

Report No.: 1			ME-036123110	ME-0351231104				
٥X9	ULR No.: TC748723000017816F				SI			
Sr. No.	Parameter		Unit	Result	#Limit	Method R	leference	
7	Mercury		mg/Nm ^a	0.0033	xsm 60.0	for Measu	CB Guidelines on Methodologies Measurement of source emission mitoring LATS/80/2013-14	
8	Oxygen (O2)		%	8.2		IS 13270.1992		

Note: 1. BQL Below Quantification Limit

- 2. LOQ: Limit of Quantification
- 3. #. Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr No. 25)
- 4. Results of SO2, NOx & PM are corrected to 6% Oz, on dry basis.
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
- 6. This report is not to be reproduced except in full, without the written approval of the laboratory.
- 7. Any complaint pertaining to the report can be addressed to mahabalreports@gmail.com

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TEST REPORT

Report No.: N	ME-1896231126		Date: 30,11.2023	
ULR No.: 1	TC748723000019196F	21		
Plot No. B-1, M Center, Post &	ohabala, MIDC Growth Tehsil: Warora,		169725 2023	
Stack Emission	Sampling Done by	Laboratory		
Unit #1	Sample Quantity / Packing	Thimble: 1 X 1 N SO ₂ :30 mL X 1 N NOx:25 mL X 1 N O ₂ :2L X 1 No. Ga Hg:200mL X 2 N	lo. PVC Bottle No. PVC Bottle as Bladder	
g 25.11.2023 Date of Receipt of Sample				
As per method n	eference			
27.11.2023	Date of Completion of Analysis	29.11.2023		
	ULR No.: GMR WARORA Plot No. B-1, M Center, Post & Dist: Chandrap Stack Emission Unit # I 25.11.2023 As per method m	ULR No.: TC748723000019196F GMR WARORA ENERGY LIMITED. Plot No. B-1, Mohabala, MIDC Growth Center, Post & Tehsil: Warora, Dist: Chandrapur (M.S.) Stack Emission Sampling Done by Unit # I Sample Quantity / Packing 25.11.2023 Date of Receipt of Sample As per method reference 27.11.2023	ULR No.: TC748723000019196F GMR WARORA ENERGY LIMITED. Plot No. B-1, Mohabala, MIDC Growth Center, Post & Tehsil: Warora, Dist: Chandrapur (M.S.) SO No.: 4800° SO Date: Stack Emission Sampling Done by Laboratory Unit # I Sample Quantity / Packing Thimble: 1 X 1 N SO2:30 mL X 1 N NOX:25 mL X 1 N O2:2L X 1 No. Ga Hg:200mL X 2 N 25.11.2023 Date of Receipt of Sample 26.11.2023 As per method reference 27.11.2023 Date of Completion of 29.11.2023	

Stack Details		
Stack Identity	Unit -I	
Stack attached to	ESP Outlet	
Material of construction	RCC	
Stack height above ground level (Meter)	275	
Stack Diameter (Meter)	5.0	
Stack shape at top	Round	
Type of fuel	Coal	
Fuel Consumption (L/h)	(•)	
Load at the time of monitoring (MW)	S2	
Time of Monitoring (h)	11:10 to 11:40	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
9	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	°C	129		IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	25.0		IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm ³ /h	1239503		IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ³	33	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO2)	mg/Nm ^a	1133	600	IS 11255 (Part 2):1985
6	Oxides of Nitrogen (NOx)	mg/Nm ³	336	450	IS 11255 (Part 7): 2005

Page 1 of 2 QF/SALE/04 Issue No 03 Date 05.12.2019. Amd 03 Date 18.07.2023 Reviewed and authorised by



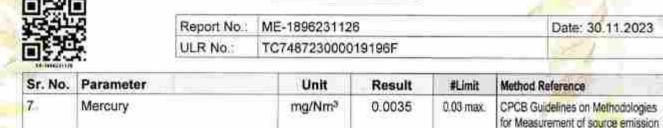




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TEST REPORT



Oxygen	(O_2)

END OF REPORT

%

Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification
- 3. #: Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr.No. 25)

8.2

- 4. Results of SO2, NOx & PM are corrected to 6% O2, on dry basis.
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Technical Manager Chemical Testing





monitoring LATS/80/2013-14

IS 13270 1992





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TEST REPORT

279.5N-	Demark Mail	ME 1967021108		Deter 20 14 2022
Lense.	the second s	ME-1897231126		Date: 30,11.2023
C S22:	ULR No	TC748723000019197F		151
Name and Address of Customer	Plot No. 8-1, N	A ENERGY LIMITED. Mohabala, MIDC Growth Tehsil: Warora, pur (M.S.)	112:20 0 YO VALUE	169725 4.2023
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory	
Sampling Location	Unit # II	Sample Quantity / Packing	Thimble: 1 X 1 N SO ₂ :30 mL X 1 N NOx:25 mL X 1 O ₂ :2L X 1 No. G Hg:200mL X 2 N	No. PVC Bottle No. PVC Bottle as Bladder
Date of Sampling	25.11.2023	Date of Receipt of Sample	26.11.2023	
Sampling Procedure	As per method	reference		
Date of Start of Analysis	27.11.2023	Date of Completion of Analysis	29.11.2023	

Stack Details		
Stack Identity	Unit -II	
Stack attached to	ESP Outlet	
Material of construction	RCC	
Stack height above ground level (Meter)	275	
Stack Diameter (Meter)	5.0	
Stack shape at top	Round	
Type of fuel	Coal	
Fuel Consumption (L/h)		
Load at the time of monitoring (MW)		
Time of Monitoring (h)	12:05 to 12:35	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	0C	130	1.1	IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	25.1	141	IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm³/h	1241373	+	IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ³	34	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO2)	mg/Nm ³	1161	600	IS 11255 (Part 2):1985
6	Oxides of Nitrogen (NOx)	mg/Nm ³	342	450	IS 11255 (Part 7): 2005

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TEST REPORT



Report No.: ME-1897231126 ULR No.: TC748723000019197F Date: 30.11.2023

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
7	Mercury	mg/Nm ^a	0.0034	0.03 max.	CPCB Guidelines on Methodologies for Measurement of source emission monitoring LATS/80/2013-14
8	Oxygen (O ₂)	- %	8.2		IS 13270:1992

Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification
- 3. #: Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr.No. 25)
- 4. Results of SO2, NOx & PM are corrected to 6% O2, on dry basis.
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TEST REPORT

La 1550 (La 1				
	Report No	ME-0608231209		Date: 14 12 2023
0785	ULR No.	TC748723000019981F		55
Name and Address of Customer	Plot No. B-1, M	A ENERGY LIMITED. Iohabala, MIDC Growth Tehsil: Warora, pur (M.S.)	DEDICTORY PLAN AND ADDRESS	169725 2023
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory	
Sampling Location	Unit#I	Sample Quantity / Packing	Thimble: 1 X 1 N SO ₂ 30 mL X 1 N NOx:25 mL X 1 N Oz:2L X 1 No. G Hg 200mL X 2 N	No. PVC Bottle No. PVC Bottle as Bladder
Date of Sampling	08.12.2023	Date of Receipt of Sample	09.12.2023	
Sampling Procedure	As per method	reference		
Date of Start of Analysis	09 12 2023	Date of Completion of Analysis	13 12 2023	

Stack Details		
Stack Identity	Unit -I	
Stack attached to	ESP Outlet	
Material of construction	RCC	
Stack height above ground level (Meter)	275	
Stack Diameter (Meter)	5.0	
Stack shape at top	Round	
Type of fuel	Coal	
Fuel Consumption (L/h)		
Load at the time of monitoring (MW)	2	
Time of Monitoring (h)	12:30 to 13:00	_

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
9	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				ų
1	Flue gas Temperature	°C	128	- 25	IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	25.0	: el	IS 11255 (Part 3) 2008
3	Flue gas Flow Rate	Nm³/h	1236877		IS 11265 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ³	39	50	IS 11255 (Part 1) 1985
5	Sulphur Dioxide (SO2)	mg/Nm³	1081	600	IS 11255 (Part 2) 1985
6	Oxides of Nitrogen (NOx)	mg/Nm ²	348	450	IS 11255 (Part 7): 2005

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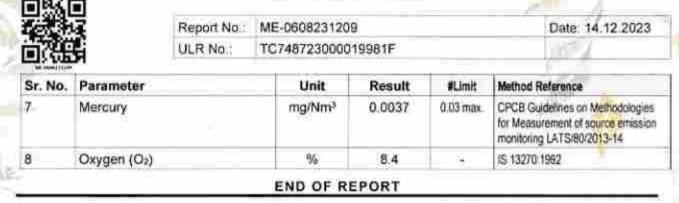




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TEST REPORT



Note: 1. BOL: Below Quantification Limit

- 2. LOQ: Limit of Quantification
- 3. # Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr.No. 25)
- 4. Results of SO2, NOx & PM are corrected to 6% Oz, on dry basis.
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TEST REPORT

(#)*\$e(#)				
1	Report No.:	ME-0609231209		Date: 14.12.2023
in the second	ULR No :	TC748723000019982F		100
Name and Address of Customer	Plot No. B-1, M	A ENERGY LIMITED. Iohabala, MIDC Growth L Tehsil: Warora, pur (M.S.)	Distance of the second s	169725
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory	
Sampling Location	Unit # II	Sample Quantity / Packing	Thimble: 1 X 1 N SO ₂ 30 mL X 1 I NO ₃ 25 mL X 1 I O ₂ 2L X 1 No. G Hg:200mL X 2 N	No. PVC Bottle No. PVC Bottle as Bladder
Date of Sampling	08.12.2023	Date of Receipt of Sample	09.12.2023	
Sampling Procedure	As per method	reference		
Date of Start of Analysis	09.12.2023	Date of Completion of Analysis	13.12.2023	

Stack Details	
Stack Identity	Unit -II
Stack attached to	ESP Outlet
Material of construction	RCC
Stack height above ground level (Meter)	275
Stack Diameter (Meter)	5.0
Stack shape at top	Round
Type of fuel	Coal
Fuel Consumption (L/h)	*
Load at the time of monitoring (MW)	
Time of Monitoring (h)	13:10 to 13:40

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
e	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	0C	130	15	IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	25.1	- 14 14	IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm ³ /h	1235663	*	IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ³	33	50	IS 11255 (Part 1) 1985
5	Sulphur Dioxide (SO2)	mg/Nm³	1116	600	IS 11255 (Part 2) 1985
6	Oxides of Nitrogen (NOx)	mg/Nm ³	340	450	IS 11255 (Part 7): 2005

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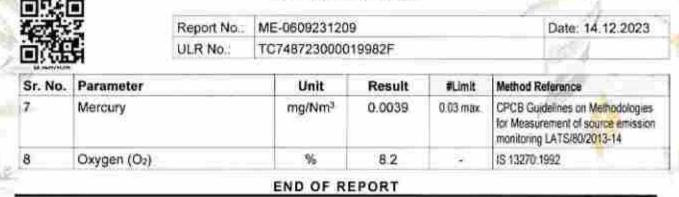






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TEST REPORT



Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification
- 3. #: Limit as per Environmental protection Rule 1985, Amd Rules 2015 (Schedule-I Sr.No. 25)
- 4. Results of SO2, NOx & PM are corrected to 6% O2, on dry basis.
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

				per la constante de		
No. of the second se		Report No.:	ME-1774231228		Date: 02.01.2024	
	0.221	ULR No.:	TC748723000021068F		22	
	Name and Address of Customer	Plot No. B-1, N	A ENERGY LIMITED. Iohabala, MIDC Growth Tehsil: Warora, our (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023		
	Sample Description / Type	Stack Emission	Sampling Done by	Laboratory		
	Sampling Location	Unit #1	Sample Quantity / Packing	Thimble: 1 X 1 No. SO ₂ :30 mL X 1 No. PVC Bottle NOx 25 mL X 1 No. PVC Bottle O ₂ :2L X 1 No. Gas Bladder Hg:200mL X 2 No. PVC Bottle		
Date of Sampling		27.12.2023	Date of Receipt of Sample	28.12.2023		
Sampling Procedure As per met			od reference			
	Date of Start of 28.12.2023 Date of Completion of Analysis Analysis		02.01.2024			

Stack Details		
Stack Identity	Unit -I	
Stack attached to	ESP Outlet	
Material of construction	RCC	
Stack height above ground level (Meter)	275	
Stack Diameter (Meter)	5.0	
Stack shape at top	Round	
Type of fuel	Coal	
Fuel Consumption (t/h)	203	
Load at the time of monitoring (MW)	303	
Time of Monitoring (h)	11:30 to 12:00	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	°C	130		IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	25.1	4	IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm³/h	1244039		IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ³	38	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO2)	mg/Nm ³	954	600	IS 11255 (Part 2):1985
6	Oxides of Nitrogen (NOx)	mg/Nm ²	330	450	IS 11255 (Part 7): 2005

Page 1 of 2 QF/SALE/04 Issue No 03 Date 05 12.2019. Amd 03 Date 18.07 2023 Reviewed and authorised by

Harish Mendhi

Technical Manager Chemical Testing







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TEST REPORT



Report No.: ME-1774231228 ULR No.: TC748723000021068F Date: 02.01.2024

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
7	Mercury	mg/Nm³	0.0036	0.03 max.	CPCB Guidelines on Methodologies for Measurement of source emission monitoring LATS/80/2013-14
8	Oxygen (O2)	%	8.2		IS 13270:1992

Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification
- 3. #: Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr.No. 25)
- 4. Results of SO₂, NOx & PM are corrected to 6% O₂, on dry basis.
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

				100 C	1.8
-	-3693M	Report No.:	ME-1775231228		Date: 02 01 2024
	i) (9)	ULR No.	TC748723000021069F		24
	Address of Customer	Plot No. B-1, M	ENERGY LIMITED. Iohabala, MIDC Growth Tehsil: Warora, bur (M.S.)	[12] S. S. M. B. M. B. B. M. B.	169725 2023
	Sample Description / Type	Stack Emission	Sampling Done by	Laboratory	
	Sampling Location	Unit # II	Sample Quantity / Packing	Thimble: 1 X 1 N SO2:30 mL X 1 N NOx:25 mL X 1 N O2:2L X 1 No. Gi Hg:200mL X 2 N	No. PVC Bottle No. PVC Bottle as Bladder
Į	Date of Sampling	27.12.2023	Date of Receipt of Sample	28.12.2023	
	Sampling Procedure	As per method r	reference		
	Date of Start of Analysis	28 12 2023	Date of Completion of Analysis	02.01.2024	

Stack Details		
Stack Identity	Unit -II	
Stack attached to	ESP Outlet	
Material of construction	RCC	
Stack height above ground level (Meter)	275	
Stack Diameter (Meter)	5.0	
Stack shape at top	Round	
Type of fuel	Coal	
Fuel Consumption (t/h)	197	
Load at the time of monitoring (MW)	300	
Time of Monitoring (h)	12:10 to 12:40	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
97	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	°C	129		IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	25.0		IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm³/h	1242165	1	IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ³	35	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO2)	mg/Nm ²	914	600	IS 11255 (Part 2):1985
6	Oxides of Nitrogen (NOx)	mg/Nm ³	328	450	IS 11255 (Part 7): 2005

Page 1 of 2 OF/SALE/04 Issue No 03 Date 05 12 2019. Amd 03 Date 18.07.2023 Reviewed and authorised by





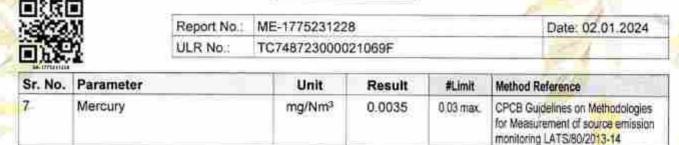


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TEST REPORT



END OF REPORT

Note: 1. BQL: Below Quantification Limit

Oxygen (O₂)

- 2. LOQ: Limit of Quantification
- 3. # Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr.No. 25)

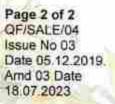
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IS 13270:1992

- 4. Results of SO2, NOx & PM are corrected to 6% O2, on dry basis.
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).

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Harish Mendhi Technical Manager Chemical Testing







TG-7487



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TEST REPORT

	Report No. M	AE-12792401	20		Date: 27.01.2024
den de la companya de	ULR No 1	C748724000	001188F		
Name and Address of Customer	GMR WARORA Plot No. 8-1, Me Center, Post & Dist: Chandrap	ohabala, MiD Tehsil: Waro	C Growth	CARLES AND AND A STORE	0169725 04,2023
Sample Description / Type	Stack Emission	Sampling D	one by	Laboratory	
Sumpling Location	Unit # I	Sample Ouantity / P	acking	NOx:25 mL X 1 Oz:2L X 1 No	No. PVC Bottle No. PVC Bottle
Detr of Sampling	19.01.2024	Date of Rec	eipt of Sample	20.01.2024	
Sampling Procedure	As per method re	elerence			
Date of Start of Analysis	20.01.2024	Date of Completion of Analysis		25.01.2024	
Stack Details			1		
Steels Internetity			Linit 1		

Stack Details	- ¹ - ¹
Stack identity	Unit -I
Stack attached to	ESP Outlet
Material of construction	RCC
Stack height above ground level (Meter)	275
Stack Diameter (Meter)	5.0
Stack shape at top	Round
Type of fuel	Coal
Fuel Consumption (t/h)	196
Load at the time of monitoring (MW)	298
Time of Monitoring (h)	11:10 to 11:40

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
-	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	PC	130		IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	25.0	ST	IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm ³ /h	1238332	- a	IS 11255 (Part 3) 2008
4	Particulate Matter (PM)	mg/Nm ^a	42	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO2)	mg/Nm ³	1120	600	IS 11255 (Part 2):1985
6	Oxides of Nitrogen (NOx)	mg/Nm ²	337	450	IS 11255 (Part 7): 2005

Page 1 of 2 QF/SALE/04 Issue No 03 Date 05 12 2019 Amd 03 Date 18 07 2023 Reviewed and authorised by

Harish Mendhi **Technical Manager Chemical Testing**





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TEST REPORT

50560805			ME-127924012	ME-1279240120 TC748724000001188F			
			TC7487240000				
Sr. No.	Parameter		Unit	Result	#Limit	Method Re	ference
7	Mercury		mg/Nm³	0.0040	0.03 max	CPCB Guidelines on Methodolog for Measurement of source emissi monitoring LATS/66/2013-14	
8 Oxygen (O2)		%	8.0		IS 13270 1	992	

Note: 1. BQL: Below Quantification Limit

TEC

- 2. LOQ: Limit of Quantification
- 3. #: Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr.No. 25)
- 4. Results of SO2, NOx & PM are corrected to 6% O2, on dry basis.
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
- 6 This report is not to be reproduced except in full, without the written approval of the laboratory.
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TEST REPORT

(B) (B, 2)						100	
H2 4	Report No. ME-1280240120					Date. 27.01.2024	
π¢,2	ę.	ULR No T	C748724000	001189F		1	
Name a	nd of Customer	GMR WARORA Plot No. B-1, Mr Center, Post & Dist: Chandrap	ohabala, MID Tehsil: Waro	C Growth	4800169725 e. 10.04.2023		
Sample Descript	ion / Type	Stack Emission	Sampling D	one by Laboratory			
Sampling Location Unit # II Date of Sampling 19.01.2024		Unit # II	Quantity / Packing		SO2 30 NOx 25 O2 2L)	e: 1 X 1 No. mL X 1 No. PVC Sottle mL X 1 No. PVC Sottle (1 No. Gas Bladder mL X 2 No. PVC Bottle	
		Date of Rec	eipt of Sample	20.01.2	024		
Samplin	g Procedure	As per method n	eference				
Date of Start of 20 01.2024 Analysis		20 01.2024	Date of Completion of Analysis		25.01.2024		
Stack D	etails			1			
Stack Id				Unit -II ESP Outlet RCC 275			
0,000,00	tached to						
Here we have a set of the set of	of construction	A CONTRACTOR OF THE SECTION OF THE S					
		ound level (Meter)					
1	iameter (Meter)		5.0			
Type of	hape at top			Round			
	nsumption (t/h)	1		182			
the second s	the time of mo			289			
and the second sec	Monitoring (h)			11:50 to 12:2	20		
Sr. No.	Parameter		Unit	Result	#Limit	Method Reference	
ef.	Product Gro	hemical Testing; up: Atmospheric ack Emission)					
1	Flue gas Tem	nperature	^U C	131		IS 11255 (Pat 3):2008	
2	Flue gas Velo		m/s	25.1	- 14 1	IS 11255 (Part 3):2008	
3	Flue gas Flov	10000	Nm ³ /h	1239575	140	IS 11255 (Part 3) 2008	
4	Particulate M	The Part of State of	mg/Nm ³	39	50	IS 11255 (Part 1) 1985	
		and a state of the	anadra ana a		-71 - 21	11-11-11-11-11-11-11-11-11-11-11-11-11-	

1102

332

mg/Nm²

mg/Nm³

630

450

Page 1 of 2 OF/SALE/04 Issue No 03 Date 05 12 2019 Amd 03 Date 18 07 2023

5

6

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Sulphur Dioxide (SO2)

Oxides of Nitrogen (NOx)

Harish Mendhi **Technical Manager Chemical Testing**



IS 11255 (Part 2):1985

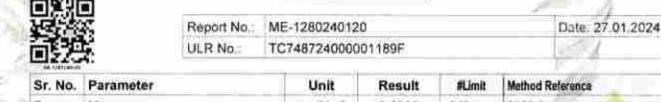
IS 11255 (Part 7): 2005





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TEST REPORT



51.14	o, rarameter	Othe	resun	#620100	method velerence
7	Mercury	mg/Nm ^a	0.0038	0.03 max.	CPCB Guidelines on Methodologies for Measurement of source emission monitoring LATS/80/2013-14
8	Oxygen (O2)	%	8,0	12	IS 13270-1992
		END OF R	EPORT		

Note: 1. BQL Below Quantification Limit

- 2. LOQ: Limit of Quantification
- 3. #: Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr No. 25)
- 4 Results of SO₂, NO_x & PM are corrected to 6% O₂, on dry basis.
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TEST REPORT

建設建	Report No.:	ME-1840240130		Date: 03.02 2024
	ULR No.:	TC748724000001728F		
Name and Address of Customer	Plot No. B-1, M	A ENERGY LIMITED. Iohabala, MIDC Growth Tehsil: Warora, bur (M.S.)		169725 2023
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory	
Sampling Location	Unit#1	Sample Quantity / Packing	Thimble: 1 X 1 N SO ₂ :30 mL X 1 N NOx:25 mL X 1 N O ₂ :2L X 1 No. Ga Hg:200mL X 2 N	lo. PVC Bottle No. PVC Bottle as Bladder
Date of Sampling	29.01.2024	Date of Receipt of Sample	30.01.2024	
Sampling Procedure	As per method r	eference		
Date of Start of Analysis	31.01,2024	Date of Completion of Analysis	02.02.2024	

Stack Details		
Stack Identity	Unit -I	
Stack attached to	ESP Outlet	
Material of construction	RCC	
Stack height above ground level (Meter)	275	
Stack Diameter (Meter)	5.0	
Stack shape at top	Round	-
Type of fuel	Coal	
Fuel Consumption (t/h)	189	
Load at the time of monitoring (MW)	303	
Time of Monitoring (h)	11:00 to 11:30	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
Ş	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	°C	131	-	IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	25.1	÷.	IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm ³ /h	1246277	40	IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ³	40	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO ₂)	mg/Nm ³	1098	600	IS 11255 (Part 2); 1985
6	Oxides of Nitrogen (NOx)	mg/Nm ³	330	450	IS 11255 (Part 7): 2005

Page 1 of 2 QF/SALE/04 Issue No 03 Date 05.12.2019. (Amd 03 Date 18.07.2023

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TEST REPORT



Report No.: ME-1840240130 ULR No.: TC748724000001728F

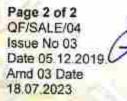
Date: 03.02.2024

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
7	Mercury	mg/Nm³	0.0038	0.03 max.	CPCB Guidelines on Methodologies for Measurement of source emission monitoring LATS/80/2013-14
8	Oxygen (O2)	%	8.2		IS 13270:1992

END OF REPORT

Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification
- 3. #: Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr.No. 25)
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Kishor Yeole Branch Manager Chemical Testing

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TEST REPORT

	IEST REPORT				
	Report No.:	ME-1841240130	Date: 03.02.2024		
	ULR No .:	TC748724000001729F		101	
Name and Address of Customer	Plot No. B-1, M	A ENERGY LIMITED. Aohabala, MIDC Growth A Tehsil: Warora, pur (M.S.)	SO No.: 4800169725 SO Date: 10.04,2023		
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory		
Sampling Location	Unit # II	Sample Quantity / Packing	Thimble: 1 X 1 No. SO2:30 mL X 1 No. PVC Bottle NOx:25 mL X 1 No. PVC Bottle O2:2L X 1 No. Gas Bladder Hg:200mL X 2 No. PVC Bottle		
Date of Sampling	29.01.2024	Date of Receipt of Sample	30.01.2024		
Sampling Procedure	As per method	reference			
Date of Start of Analysis	31.01.2024	Date of Completion of Analysis	02.02.2024		

Stack Details		
Stack Identity	Unit -II	
Stack attached to	ESP Outlet	
Material of construction	RCC	
Stack height above ground level (Meter)	275	
Stack Diameter (Meter)	5.0	
Stack shape at top	Round	
Type of fuel	Coal	
Fuel Consumption (t/h)	180	
Load at the time of monitoring (MW)	303	
Time of Monitoring (h)	11:40 to 12:10	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
9	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	°C	132	1.0	IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	25.1	- 3a)	IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm³/h	1241431	(4)	IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ³	38	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO2)	mg/Nm ³	1085	600	IS 11255 (Part 2):1985
6	Oxides of Nitrogen (NOx)	mg/Nm ³	326	450	IS 11255 (Part 7): 2005

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TEST REPORT



Report No.:	ME-1841240130	Date: 03.02.2024
ULR No .:	TC748724000001729F	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
7	Mercury	mg/Nm ³	0.0037	0.03 max.	CPCB Guidelines on Methodologies for Measurement of source emission monitoring LATS/80/2013-14
8	Oxygen (O2)	%	8.2	-	IS 13270:1992

END OF REPORT

1. BQL: Below Quantification Limit Note:

- 2. LOQ: Limit of Quantification
- 3. #: Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr.No. 25)
- 4. Results of SO2, NOx & PM are corrected to 6% O2, on dry basis.
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TEST REPORT

	Report No.: ME-0857240211			Date: 15.02.2024
	ULR No.: T	121		
Name and Address of Customer				0169725 04,2023
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory	
Sampling Location	Unit # I	Sample Quantity / Packing	NOx:25 mL X 1 Oz:2L X 1 No.	No. PVC Bottle No. PVC Bottle
Date of Sampling	10.02.2024	Date of Receipt of Sample	11.02.2024	
Sampling Procedure	As per method r	eference		
Date of Start of Analysis	12.02.2024	Date of Completion of Analysis	14.02.2024	

Stack Details	
Stack Identity	Unit -I
Stack attached to	ESP Outlet
Material of construction	RCC
Stack height above ground level (Meter)	275
Stack Diameter (Meter)	5.0
Stack shape at top	Round
Type of fuel	Coal
Fuel Consumption (Vh)	192
Load at the time of monitoring (MW)	300
Time of Monitoring (h)	11:40 to 12:10

Sr. No.	Parameter	Unit	Result	亂imit	Method Reference
47	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Stack Emission)				
4	Flue gas Temperature	°C	127		IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	25.0		IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm ³ /h	1259710	14	IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ²	38	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO ₂)	mg/Nm ³	1080	600	IS 11255 (Part 2) 1985
6	Oxides of Nitrogen (NOx)	mg/Nm ³	325	450	IS 11255 (Part 7): 2005

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TEST REPORT

2344	ži –	Report No.:	ME-085724021	<u>t</u>		Date: 15.02.2024
自然的	6	ULR No.:	TC7487240000	02628F		
Sr. No.	Parameter		Unit	Result	#Limit	Method Reference
7	Mercury		mg/Nm ³	0.0041	0.03 max	CPCB Guidelines on Methodologies for Measurement of source emission monitoring LATS/80/2013-14
8	Oxygen (O2)		%	7.8	-	IS 13270:1992

Note: 1. BQL: Below Quantification Limit.

- 2 LOQ: Limit of Quantification
- 3. #. Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr.No. 25)
- 4. Results of SO2, NOx & PM are corrected to 6% O2, on dry basis.
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

	Report No. ME 0858240211 Date: 15.02.20				
1.75	Report No.:	Report No.: ME-0858240211			
	ULR No.	TC748724000002629F		51	
Name and Address of Customer	Plot No. B-1, M	ENERGY LIMITED. Iohabala, MIDC Growth Tehsil: Warora, our (M.S.)		0169725 4 2023	
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory		
Sampling Location	Unit # II	Sample Quantity / Packing	Thimble: 1 X 1 No. SO2 30 mL X 1 No. PVC Bottle NOx 25 mL X 1 No. PVC Bottle O2 2L X 1 No. Gas Bladder Hg:200mL X 2 No. PVC Bottle		
Date of Sampling	10.02.2024	Date of Receipt of Sample	11.02.2024		
Sampling Procedure	As per method	reference			
Date of Start of Analysis	12.02.2024	Date of Completion of Analysis	14 02 2024		

Stack Details	
Stack Identity	Unit -II
Stack attached to	ESP Outlet
Material of construction	RCC
Stack height above ground level (Meter)	275
Stack Diameter (Meter)	5.0
Stack shape at top	Round
Type of fuel	Coal
Fuel Consumption (t/h)	190
Load at the time of monitoring (MW)	300
Time of Monitoring (h)	12:25 to 12:55

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
5	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	PC	129	÷2	IS 11255 (Part 3) 2008
2	Flue gas Velocity	m/s	25.0	2	IS 11255 (Part 3) 2008
3	Flue gas Flow Rate	Nm ³ /h	1253443		IS 11255 (Peri 3):2008
4	Particulate Matter (PM)	mg/Nm ³	36	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO2)	mg/Nm ³	1062	600	IS 11255 (Part 2):1985
6	Oxides of Nitrogen (NOx)	mg/Nm ^a	320	450	IS 11255 (Part 7): 2005

Page 1 of 2 QF/SALE/04 Issue No 03 Date 05.12.2019. Amd 03 Date 18.07.2023 Reviewed and authorised by

Harish Mendhi

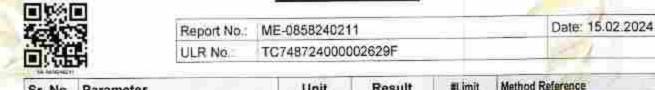






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TEST REPORT



Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
7	Mercury	mg/Nm ^a	0.0039	0.03 max.	CPCB Guidelines on Methodologies for Measurement of source emission monitoring LATS/80/2013-14
8	Oxygen (O2)	%	8.2	-	IS 13270:1992

END OF REPORT

Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification
- 3 #: Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr.No. 25)
- 4. Results of SO2, NOx & PM are corrected to 6% O2, on dry basis
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

	T	TEST REPORT		
1000	Report No.:	ME-1810240226		Date: 29.02.2024
OR: A	ULR No .:	TC748724000003506F		N/
Name and Address of Customer	Plot No. B-1, N	A ENERGY LIMITED. Iohabala, MIDC Growth Tehsil: Warora, pur (M.S.)	· [2] 오브 25가 (오프 1977년)	169725 4.2023
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory	
Sampling Location	Unit#1	Sample Quantity / Packing	Thimble: 1 X 1 1 SO ₂ :30 mL X 1 NOx:25 mL X 1 O ₂ :2L X 1 No. G Hg:200mL X 2 N	No. PVC Bottle No. PVC Bottle ias Bladder
Date of Sampling	24.02.2024	Date of Receipt of Sample	26.02.2024	
Sampling Procedure	As per method	reference		
Date of Start of Analysis	26.02.2024	Date of Completion of Analysis	29.02.2024	

Stack Details		
Stack Identity	Unit -I	
Stack attached to	ESP Outlet	
Material of construction	RCC	
Stack height above ground level (Meter)	275	
Stack Diameter (Meter)	5.0	
Stack shape at top	Round	
Type of fuel	Coal	
Fuel Consumption (t/h)	160	
Load at the time of monitoring (MW)	281	
Time of Monitoring (h)	11:10 to 11:40	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
4	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	°C	130		IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	25.0	75	IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm ³ /h	1236680	\$	IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ³	36	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO2)	mg/Nm ^a	908	600	IS 11255 (Part 2):1985
6	Oxides of Nitrogen (NOx)	mg/Nm ²	319	450	IS 11255 (Part 7): 2005

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TEST REPORT



Report No.: ME-1810240226 ULR No.: TC748724000003506F Date: 29.02.2024

Sr. No.	Parameter	Unit	Result	#Limit	Method Raference
7	Mercury	mg/Nm ³	0.0038	'0.03 max	CPCB Guidelines on Methodologies for Measurement of source emission monitoring LATS/80/2013-14
8	Oxygen (O ₂)	%	8.2	16	IS 13270-1992

END OF REPORT

Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification
- 3. # Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr.No. 25)
- 4. Results of SO₂, NO_x & PM are corrected to 6% O₂, on dry basis.
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Kishor Yeole Branch Manager

Chemical Testing









GER YARD

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TEST REPORT

电波弹电	111			and g.
Lot S	Report No.:	ME-1811240226		Date: 29.02.2024
	ULR No.:	TC748724000003507F		21
Name and Address of Customer	Plot No. B-1, N	A ENERGY LIMITED. Iohabala, MIDC Growth Tehsil: Warora, pur (M.S.)	Contraction of the second s	169725 1.2023
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory	1
Sampling Location	Unit #2	Sample Quantity / Packing	Thimble: 1 X 1 N SO ₂ :30 mL X 1 1 NO _X 25 mL X 1 O ₂ :2L X 1 No. G Hg 200mL X 2 N	No. PVC Bottle No. PVC Bottle as Bladder
Date of Sampling	24.02.2024	Date of Receipt of Sample	26.02.2024	
Sampling Procedure	As per method	reference		
Date of Start of Analysis	26.02.2024	Date of Completion of Analysis	29.02.2024	

Stack Details		
Stack Identity	Unit -2	
Stack attached to	ESP Outlet	
Material of construction	RCC	
Stack height above ground level (Meter)	275	
Stack Diameter (Meter)	5.0	
Stack shape at top	Round	
Type of fuel	Coal	
Fuel Consumption (t/h)	159	
Load at the time of monitoring (MW)	260	
Time of Monitoring (h)	11.55 to 12:25	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
4	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	°C	131	*	IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	25.1		IS 11255 (Part 3) 2008
3	Flue gas Flow Rate	Nm³/h	1238301	×.	IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ³	34	50	IS 11255 (Part 1) 1985
5	Sulphur Diaxide (SO2)	mg/Nm ³	900	600	IS 11255 (Part 2):1985
6	Oxides of Nitrogen (NOx)	mg/Nm ^a	316	450	IS 11255 (Part 7) 2005

Page 1 of 2 QF/SALE/04 Issue No 03 Date 05 12 2019 Amd 03 Date 18.07 2023

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TEST REPORT

tet		Report No.:	ME-1811240226		Date: 29.02.2024	
前得	3	ULR No .:	TC7487240000	03507F		51
Sr. No.	Parameter		Unit	Result	#Limit	Method Reference
7	Mercury		mg/Nm ³	0.0037	0.03 max.	CPCB Guidelines on Methodologies for Measurement of source emission monitoring LATS/80/2013-14
8	Oxygen (O2)		%	8.0		IS 13270:1992

Note: 1. BQL: Below Quantification Limit

CORV.CO

- 2. LOQ: Limit of Quantification
- 3. # Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr.No. 25)
- 4. Results of SO₂, NO_X & PM are corrected to 6% O₂, on dry basis.
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
- 6. This report is not to be reproduced except in full, without the written approval of the laboratory.
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TEST REPORT

Report No 1	AE-0810240312		Date: 16.03.2024
ULR No : T	C748724000004423F		ull (
Plot No. B-1, Me Center, Post &	bhabala, MIDC Growth Tehsil: Warora,	The second se	169725 2023
Stack Emission	Sampling Done by	Laboratory	
Unit No # I	Sample Thimble: 1 X 1 N Quantity / Packing SO ₂ :30 mL X 1 N NOx:25 mL X 1 N O ₂ :2L X 1 No Ga Hg:200mL X 2 N		lo. PVC Bottle No. PVC Bottle as Bladder
11.03.2024	Date of Receipt of Sample	12.03.2024	
As per method re	eference		
13.03.2024	Date of Completion of Analysis	16.03.2024	
	ULR No : T GMR WARORA Plot No. B-1, Me Center, Post & Dist: Chandrape Stack Emission Unit No # I 11.03.2024 As per method re	ULR No.: TC748724000004423F GMR WARORA ENERGY LIMITED. Plot No. B-1, Mohabala, MIDC Growth Center, Post & Tehsil: Warora, Dist: Chandrapur (M.S.) Stack Emission Stack Emission Sampling Done by Unit No.# I Sample Quantity / Packing 11.03.2024 Date of Receipt of Sample As per method reference 13.03.2024 Date of Completion of	ULR No.: TC748724000004423F GMR WARORA ENERGY LIMITED. Plot No. B-1, Mohabala, MIDC Growth Center, Post & Tehsil: Warora, Dist: Chandrapur (M.S.) SO No.: 4800 SO Date: Stack Emission Sampling Done by Laboratory Unit No.# I Sample Quantity / Packing Thimble: 1 × 1 N SO2:30 mL × 1 N NOx:25 mL × 1 I O2:2L × 1 No. Gi Hg:200mL × 2 N 11.03.2024 Date of Receipt of Sample 12.03.2024 As per method reference Tate of Completion of 16.03.2024

Stack Details		
Stack identity	Unit No.#1	
Stack attached to	ESP Outlet	
Material of construction	RCC	
Stack height above ground level (Meter)	275	
Stack Diameter (Meter)	5.0	
Stack shape at top	Round	
Type of fuel	Coal	
Fuel Consumption (Vh)	175	
Load at the time of monitoring (MW)	295	
Time of Monitoring (h)	14:40 to 15:10	

Sr. No.	Parameter	Unit	Result	#Limit	Method Referance
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	°C	133	322	IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	25.1	- (d) -	IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm ³ /h	1232201	241	IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ³	39	50	(S 11255 (Part 1): 1985
5.	Sulphur Dioxide (SO2)	mg/Nm ³	996	600	IS 11255 (Part 2):1985
6	Oxides of Nitrogen (NOx)	mg/Nm ³	330	450	IS 11255 (Part 7): 2005

Page 1 of 2 QF/SALE/04 Issue No 03 Date 05.12.2019. Amd 03 Date 18.07.2023 Reviewed and authorised by

Harish Mendhi Technical Manager Chemical Testing





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TEST REPORT

44		Report No.:	ME-081024031 TC7487240000	en l Ne vitario contra con			Date: 16.03.2024
	R	MUN NO:	107407240000	unnaur -			ų – ÷
Sr. No.	Parameter		Unit	Result	#Limit	Method R	leference
7	Mercury		mg/Nm ^a	0.0040	0.03 max.	for Measu	idelines on Methodologies itement of source emission g LATS/80/2013-14
8	Oxygen (O ₂)		%	8.0		IS 13270:	1992

Note: 1. BQL: Below Quantification Limit

THE STATE

- 2. LOQ: Limit of Quantification
- 3. # Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr.No. 25)
- 4. Results of SO2, NOx & PM are corrected to 6% Oz, on dry basis.
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
- 6. This report is not to be reproduced except in full, without the written approval of the laboratory.
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TEST REPORT

Testa was	Report No.: 1	WE-0811240312		Date: 16.03.2024
	ULR No.:	TC748724000004424F		
Name and Address of Customer	Plot No. B-1, M	ENERGY LIMITED. ohabala, MIDC Growth Tehsil: Warora, our (M.S.)		169725 2023
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory	
Sampling Location	Unit No.# II	Sample Quantity / Packing	Thimble: 1 X 1 N SO ₂ :30 mL X 1 N NOx:25 mL X 1 N O ₂ :2L X 1 No. G Hg:200mL X 2 N	No. PVC Bottle No. PVC Bottle as Bladder
Date of Sampling	11.03.2024	Date of Receipt of Sample	12.03.2024	
Sampling Procedure	As per method r	eference		
Date of Start of Analysis	13.03.2024	Date of Completion of Analysis	16.03.2024	

Stack Details		
Stack Identity	Unit No.# II	
Stack attached to	ESP Outlet	
Material of construction	RCC	
Stack height above ground level (Meter)	275	
Stack Diameter (Meter)	5.0	
Stack shape at top	Round	
Type of fuel	Coal	
Fuel Consumption (t/h)	191	
Load at the time of monitoring (MW)	289	
Time of Monitoring (h)	15:20 to 15:50	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	°C	134	27	IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	25.1	54	IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm ³ /h	1229801		IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ³	42	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO2)	mg/Nm ⁵	1090	600	IS 11255 (Part 2) 1985
6	Oxides of Nitrogen (NOx)	mg/Nm ³	335	450	IS 11255 (Part 7): 2005

Page 1 of 2 QF/SALE/04 Issue No 03 Date 05 12 2019. Amd 03 Date 18.07.2023

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TEST REPORT



Report No: ME-0811240312 ULR No: TC748724000004424F Date: 16.03.2024

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
7	Mercury	mg/Nm ^a	0.0042	0.03 max.	CPCB Guidelines on Methodologies for Measurement of source emission monitoring LATS/80/2013-14
8	Oxygen (O ₂)	%	7.8	1.1	IS 13270 1992

Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification
- 3. #: Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr.No. 25)
- 4. Results of SO2, NOx & PM are corrected to 6% O2, on dry basis.
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

			12
Report No.	ME-1900240323		Date: 29.03.2024
ULR No .: 1	TC748724000005454F		101
Plot No. B-1, M Center, Post &	ohabala, MIDC Growth Tehsil: Warora,		169725
Stack Emission	Sampling Done by	Laboratory	
Unit No,# I	Sample Quantity / Packing	SO2:30 mL X 1 / NOx:25 mL X 1 / O2:2L X 1 No. G	No. PVC Bottle No. PVC Bottle as Bladder
22.03.2024	Date of Receipt of Sample	23.03.2024	
As per method r	eference		
23.03.2024	Date of Completion of Analysis	29.03.2024	
	ULR No.: GMR WARORA Plot No. B-1, M Center, Post & Dist: Chandrap Stack Emission Unit No.# I 22.03.2024 As per method r	ULR NoTC748724000005454FGMR WARORA ENERGY LIMITED. Plot No. B-1, Mohabala, MIDC Growth Center, Post & Tehsil: Warora, Dist: Chandrapur (M.S.)Stack EmissionSampling Done byStack EmissionSample Quantity / Packing22.03.2024Date of Receipt of Sample As per method reference23.03.2024Date of Completion of	ULR No: TC748724000005454F GMR WARORA ENERGY LIMITED. Plot No. 8-1, Mohabala, MIDC Growth Center, Post & Tehsil: Warora, Dist: Chandrapur (M.S.) SO No. 4800 SO Date Stack Emission Sampling Done by Laboratory Unit No.#1 Sample Quantity / Packing Thimble: 1 X 1 N SO2:30 mL X 1 N NOx:25 mL X 1 O2:2L X 1 No. G Hg:200mL X 2 N 22.03.2024 Date of Receipt of Sample 23.03.2024 As per method reference 29.03.2024

Stack Details	
Stack Identity	Unit No.#1
Stack attached to	ESP Outlet
Material of construction	RCC
Stack height above ground level (Meter)	275
Stack Diameter (Meter)	5.0
Stack shape at top	Round
Type of fuel	Coal
Fuel Consumption (t/h)	155
Load at the time of monitoring (MW)	246
Time of Monitoring (h)	11:15 to 11:45

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
1	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				10
1	Flue gas Temperature	°C	131	089	IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	25.0	i	IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm³/h	1242320	060	IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ^a	40	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO ₂)	mg/Nm ³	876	600	IS 11255 (Part 2):1985
6	Oxides of Nitrogen (NOx)	mg/Nm ³	318	450	IS 11255 (Part 7): 2005

Page 1 of 2 QF/SALE/04 Issue No 03 Date 05 12 2019 Amd 03 Date 18.07 2023

Kishor Yeole Branch Manager Chemical Testing

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TEST REPORT

152	2-1	Report No.:	ME-190024032	3		Date: 29.03.2024
Ō٠!	92 2	ULR No.	TC7487240000	05454F		51
Sr. No.	Parameter		Unit	Result	#Limit	Method Reference
7	Mercury		mg/Nm ³	0.0036	0.03 max.	CPCB Guidelines on Methodologie for Measurement of source emissio monitoring LATS/80/2013-14
8	Oxygen (O2)		%	8.0		IS 13270.1992

END OF REPORT

Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification
- 3. #: Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr No. 25)
- 4. Results of SO2, NOx & PM are corrected to 6% O2, on dry basis.
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

	Report No	ME-1901240323		Date: 29.03.2024
DE 22	ULR No :	TC748724000005455F		51
Name and Address of Customer	Plot No. B-1, M	A ENERGY LIMITED. Iohabala, MIDC Growth Tehsil: Warora, our (M.S.)		169725 4.2023
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory	
Sampling Location	Unit No # II	Sample Quantity / Packing	Thimble: 1 X 1 I SO ₂ 30 mL X 1 NOx 25 mL X 1 O ₂ 2L X 1 No. G Hg 200mL X 2 N	No. PVC Bottle No. PVC Bottle las Bladder
Date of Sampling	22.03.2024	Date of Receipt of Sample	23.03.2024	
Sampling Procedure	As per method	reference		
Date of Start of Analysis	23.03.2024	Date of Completion of Analysis	29.03.2024	

Stack Details		
Stack Identity	Unit No.# II	
Stack attached to	ESP Outlet	
Material of construction	RCC	
Stack height above ground level (Meter)	275	
Stack Diameter (Meter)	5.0	
Stack shape at top	Round	
Type of fuel	Coal	
Fuel Consumption (t/h)	142	
Load at the time of monitoring (MW)	250	
Time of Monitoring (h)	12:05 to 12:35	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
1	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	0C	132	08	IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	25.1		IS 11255 (Plat 3) 2008
3	Flue gas Flow Rate	Nm ³ /h	1246483	00	IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm ²	38	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO2)	mg/Nm ³	801	600	IS 11255 (Part 2) 1985
6	Oxides of Nitrogen (NOx)	mg/Nm ³	307	450	IS 11255 (Part 7) 2005

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Kishor Yeole Branch Manager Chemical Testing

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TEST REPORT

Report No.: ME			ME-190124032	E-1901240323			
Dt.	6	ULR No.	TC7487240000	05455F			52
Sr. No.	Parameter		Unit	Result	#Limit	Method R	elerence
7	Mercury		mg/Nm ³	0.0033	0.03 max.	for Measu	delines on Methodologies rement of source emission LATS/80/2013-14
8	Oxygen (O2)		%	8.0	- 25	IS 13270;	1992

Note: 1. BQL: Below Quantification Limit

- 2 LOQ: Limit of Quantification
- 3. #: Limit as per Environmental protection Rule 1986, Amd Rules 2015 (Schedule-I Sr.No. 25)
- 4. Results of SO2, NOx & PM are corrected to 6% O2, on dry basis.
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
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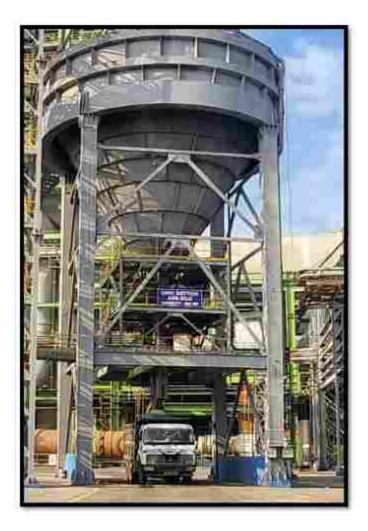




ED-DEAVE-



Safe Ash Transportation through Bulkers & Trucks



Annexure - 3



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TEST REPORT

E1222.E			
1000	Report No :	ME-1480231222	Date: 29 12 2023
07689	ULR No.:	TC748723000020782F	21
/Name and Address of Customer	Plot No. B-1,	A ENERGY LIMITED. Mohabala, MIDC Growth & Tehsil: Warora, apur (M.S.)	SO No. 4800169725 SO Date 10.04.2023
Sample Description / Type	Ground Water	Sampling done by	Laboratory
Sampling Location	Piezometer W Ash pond-Nea Switch Yard A	r Quantity / Packing	2 L X 1 No. PVC Can 500 mL X 1 No. PVC Can
Date of Sampling	21.12.2023	Date of Receipt of Sample	22.12.2023
Sampling Procedure	IS: 3025(Part)); APHA 24" Ed. 2023, 1060-E	3
Date of Start of Analysis	22.12.2023	Date of Completion of Analysis	28 12 2023

Hydrological Data				
Coordinates	R.L. (ft)	Depth (m)	Diameter (inch)	Water Level from Ground Level (m)
E 078º 58.408 N 20º 16.560	706	35.35	5	4.65

Sr. No.	Parameter	Unit	Result	Method Reference
	Discipline: Chemical Testing; Product Group: Water(Ground Water)			
1.	pH		7.9	APHA 24th Ed. 2023, 4500-H+-B
2.	Electrical Conductivity	µS/cm	1030	APHA 24# Ed. 2023, 2510- B
3.	Total Dissolved Solids	mg/L	660	IS 3025 (Part 16):2023
4.	Alkalinity Total (as CaCO ₃)	mg/L	334	APHA 24th Ed. 2023, 2320-B
5.	Total Hardness (as CaCO ₃)	mg/L	330	APHA 24* Ed. 2023. 2340-C
6.	Chloride (as Cl)	mg/L	90.0	APHA 24* Ed. 2023, 4500-CI-B
7.	Sulphate (as SO ₄)	mg/L	61.2	APHA 24th Ed. 2023, 4500- SO4-E
8,	Dissolved Oxygen	mg/L	6.7	APHA 24 th Ed. 2023, 4500-O, B & C
9.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	3.0	IS 3025 (Part 44): 2023
10	Chemical Oxygen Demand	mg/L	10	APHA 24 th Ed. 2023, 5220-B

Page 1 of 2 QF/SALE/02 Issue No 03 Date 05 12 2019 Amd 03 Date 18.07 2023 Reviewed and authorised by

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TEST REPORT

		1EST REPORT			
COSE:	Report No.: M	E-1905240323		Date: 02 04 2024	
回刊纪	ULR No.: T	C748724000005459F			
/Name and Address of Customer		あいとうがらました ション・アイル ション・アイロケート しょうゆうぎょう		169725 4.2023	
Sample Description / Type	Ground Water	Sampling done by	Laboratory		
Sampling Location	Piezometer Well- Ash pond-Near Switch Yard Area	Quantity / Packing	2 L X 1 No. PV0 500 mL X 1 No.	A REAL PROPERTY AND A REAL	
Date of Sampling	22.03.2024	Date of Receipt of Sample	23.03.2024		
Sampling Procedure	IS: 3025(Part I); APHA 24th Ed. 2023, 1060-B				
Date of Start of Analysis	23.03.2024	Date of Completion of Analysis	02.04.2024		

Hydrological Data				
Coordinates	R.L. (ft)	Depth (m)	Diameter (inch)	Water Level from Ground Level (m)
E 078° 58.408 N 20° 16.560	706	34.02	5	5.98

Sr. No.	Parameter	Unit	Result	Method Reference
	Discipline: Chemical Testing: Product Group: Water(Ground Water)			
1.	pH		7.4	APHA 24# Ed. 2023, 4500-H*-B
2.	Electrical Conductivity	µS/cm	1125	APHA 24# Ed. 2023, 2510- B
3	Total Dissolved Solids	mg/L	675	IS 3025 (Part 16):2023
4.	Alkalinity Total (as CaCO ₃)	mg/L	278	APHA 24 th Ed. 2023, 2320-8
5.	Total Hardness (as CaCO ₂)	mg/L	300	APHA 24 th Ed. 2023, 2340-C
6	Chloride (as CI)	mg/L	64.0	APHA 24P Ed. 2023, 4500-CI-B
7.	Sulphate (as SO4)	mg/L	179	IS 3025 (Part 24):2022
8.	Dissolved Oxygen	mg/L	6.6	APHA 24 th Ed. 2023, 4500-O, B & C
9.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	1.8	1S 3025 (Part 44): 2023
10.	Chemical Oxygen Demand	mg/L	7	APHA 24* Ed. 2023, 5220-B

Page 1 of 2 QF/SALE/02 Issue No 03 Date 05 12 2019. Amd 03 Date 18.07.2023 Reviewed and authorised by





Rainwater Harvesting Structures & Its Utilization in GMR Warora Energy Limited





Rain Water Reused QTY Rain Water Reused QTY from Near Month from Near Main Gate Water Reservoir (m3) (m3) 0 0 April 0 0 May June 1760 1700 July 2760 2420 August 2606 2340 September 2220 1466 0 October 0 November 0 0 December 0 0 0 0 January 0 0 February March 0 0 Total 9346 7926 Total Reused QTY 17272 m3

Rainwater Reused in FY 2023 - 24:

RAIN WATER HARVESTING FOR 2023

1. Roof Top Rain Water Harvesting Rainwater Harvesting (RTRWH):

Total Area = 12840 Sq. mt.

Total Avg. Rainfall = 1200 mm

Efficiency Factor = 0.8

Total RTRWH= 12326.4 m³

2. Roof, Paved, Ramp, DG and Cemented Area water for Artificial Recharge (AR):

Total Area = 122200 Sq. mt.

Total Avg, Rainfall = 1200 mm

Efficiency Factor = 0.8

Total AR= 117312m⁵

3. Open Area water for Artificial Recharge (AR):

Total Area = 585000 Sq. mt.

Total Avg. Rainfall = 1200 mm

Efficiency Factor = 0.3

Total AR = 210600 m³

4. Green Belt Area water for Artificial Recharge (AR):

Total Area = 420000 Sq. mt.

Total Avg. Rainfall = 1200 mm

Efficiency Factor = 0.2

Total AR = 100800 m³

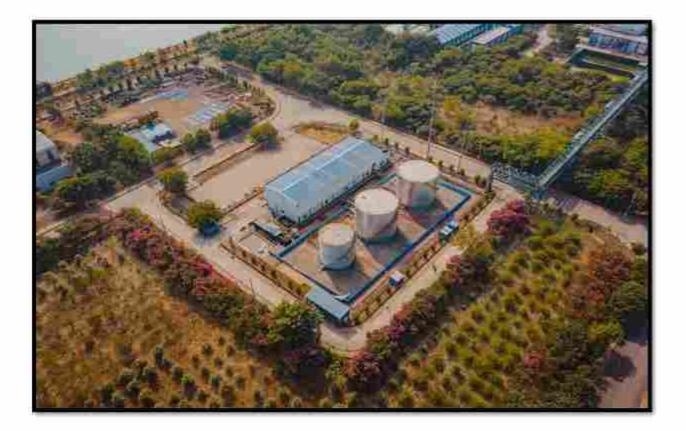
Total RWH was 441038.40.4m³

Annexure - 5



GREENBELT DEVELOPMENT AT GMR WARORA ENERGY LIMITED







Collected From

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PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA Phone: 0712-2612162/2612212 email: nagpur@mahabal.com

TEST REPORT

	Report No.:	eport No.: ME-0112231003					
6766	ULR No.:	TC748723000015799F	Date: 11.10.2				
Name and Address of Gustomer	Plot No. B- Center, Pos	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth it & Tehsil: Warora, frapur (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023				
Sample Ambient Air Description / Type		Sampling Done by	Laboratory				
Sampling Location			PM ₁₀ Pb: Filter F PM _{2.5} : Filter Pap SO ₂ :30 mL X 6 NO ₂ :	er 1 X 1 No. No. PVC Bottle No. PVC Bottle			
Date of Sampling	02.10.2023 03.10.2023	to Date of Receipt of Sample	03.10.2023				
Sampling Procedure	As per meth	As per method reference					
Date of Start of Analysis	04.10,2023	Date of Completion of Analysis	09.10.2023				

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð\w ₂	10.4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	µg/m³	13.5	50	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMie	µg/m³	55	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	23	60	CPCB Guidelines for the Measurement of Ambient Air Pollutents, Volume I, 2012-13, Page No.15-30
6	Carbon Monoxide (CO)	mg/m ³	1.05	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
7	Lead (as Pb)	hð/wa	BQL (LOQ:0.02)	01	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12.2019 Amd 04 Date 18.07.2023 Reviewed and authorised by

Harish Mendhi Technical Manager Chemical Testing





Annexure - 6



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TEST REPORT



 Report No.:
 ME-0112231003
 Date: 11.10.2023

 ULR No.:
 TC748723000015799F

- Note: 1. BQL Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel
 - 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
 - 8. This report is not to be reproduced except in full, without the written approval of the laboratory.
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TEST REPORT

	Report No.:		Date: 11.10.2023			
	ULR No.:	TC748723000015800F		1811		
Name and Address of Customer	Plot No. B-1 Center, Pos	ORA ENERGY LIMITED. , Mohabala, MIDC Growth t & Tehsil: Warora, Irapur (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023			
Sample. Description / Type	Ambient Air	Sampling Done by	Laboratory			
Sampling Location Near Reser		oir Sample Quantity / Packing	PM ₁₀ ,Pb: Filter Paper 1 X 3 No. PM _{2.5} Filter Paper 1 X 1 No. SO ₂ :30 mL X 5 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder			
Date of Sampling	of Sampling 02.10.2023 to Date of Rece 03.10.2023		03.10.2023			
Sampling Procedure	As per meth	method reference				
Date of Start of Analysis	04.10.2023	Date of Completion of Analysis	09.10.2023			

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð\w _g	9.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollulants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	µg/mª	12.5	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMto	hð\w ₃	59	100	CPCB Guidelines for the Measurement of Ambient Air Pollulants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	hð\w ₃	21	60	CPCB Guidelinos for the Measurement of Ambient Air Poliutants, Volume I, 2012-13, Page No.15-30
6	Carbon Monoxide (CO)	mg/m³	0.92	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
7	Lead (as Pb)	hð\w _a	BQL (LOQ 0.02)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

END OF REPORT

Page 1 of 2 GF/SALE/03 Issue No 03 Date 05 12 2019 Amd 04 Date 18.07 2023

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TEST REPORT



Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

	Report No.: ME-0114231003 Date: 11.1						
25434	Report No.:		Date: 11,10.2023				
自然来	ULR No.:	TC748723000015801F					
Name and Address of Customer	Plot No. B-1 Center, Pos	RA ENERGY LIMITED. , Mohabala, MIDC Growth t & Tehsil: Warora, rapur (M.S.)	SO No.: 4800169725 SO Date: 10.04 2023				
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory				
Sampling Location	Near Switch Yard	Sample Quantity / Packing	PM25: Filter Pap SO2:30 mL X 6 N NO2:30 mL X 6 I	 Filter Paper 1 X 3 No. Filter Paper 1 X 1 No. 30 mL X 6 No. PVC Bottle 30 mL X 6 No. PVC Bottle 30 mL X 6 No. PVC Bottle 21 X 3No. Gas Bladder 			
Date of Sampling 02.10.2023 to 03.10.2023		o Date of Receipt of Sample	03.10.2023				
Sampling Procedure	As per meth	od reference					
Date of Start of Analysis	04,10,2023	Date of Completion of Analysis	09.10.2023				

Sr. No.	Parameter	Unit	Result	INAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð/w _ð	8.6	80	CPC8 Goldelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	hð\w _a	13.1	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less man 10µm) or PMro	hð/w _a	50	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	hð,w ₃	19	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
6	Carbon Monoxide (CO)	mg/m³	0.98	04	CPGB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
7	Lead (as Pb)	µg/m³	BQL (LOQ 0.02)	10	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12.2019 Amd 04 Date 18.07.7023

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TEST REPORT

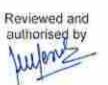


Report No 1	ME-0114231003	Date: 11.10.2023
ULR No :	TC748723000015801F	01

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia, 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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Harish Mendhi Technical Manager Chemical Testing



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TEST REPORT

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政治安	Report No.:		Date: 14.10.2023		
可無	ULR No :	TC748723000016244F		1	
Name and Address of Customer	Plot No. B- Center, Pos	DRA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, frapur (M.S.)	1990 T 1/2 T Co. 187 F Co.	2023	
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory	The second secon	
Sampling Location	Near CHP	Sample Quantity / Packing	PMto: Filter Paper 1 X 3 No. PM25 Filter Paper 1 X 1 No. SO2 30 mL X 6 No. PVC Bottle NO2 30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder		
Date of Sampling 09 10 2023 to 10 10 2023		to Date of Receipt of Sample	Date of Receipt of Sample 10.10.2023		
Sampling Procedure	As per meth	od reference			
Date of Start of Analysis	10.10.2023	Date of Completion of Analysis	12,10,2023		

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
6	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð\w ₂	9.5	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	hð\w2	12.0	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	µg/m³	57	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	16	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
6	Carbon Monoxide (CO)	mg/m ³	0.87	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019 Amd 04 Date 18.07.2023 Reviewed and authorised by







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TEST REPORT



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Report No.: ME-0603231010 1 ULR No.: TC748723000016244F

Date: 14,10.2023

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₃, Lead and Ammonia, 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
 - 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
 - 8. This report is not to be reproduced except in full, without the written approval of the laboratory.
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TEST REPORT

	Report No.:	Date: 14.10.2023			
in se	ULR No.:	TC748723000016245F	1		
Name and Address of Customer	Plot No. B-1 Center, Pos	RA ENERGY LIMITED. , Mohabala, MIDC Growth t & Tehsil: Warora, rapur (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023		
Sample Ambient Air Description / Type		Sampling Done by	Laboratory		
Sampling Location	Near Reserv	oir Sample Quantity / Packing	PM ₁₀ : Filter Paper 1 X 3 No PM _{2.5} Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder		
Date of Sampling 09.10.2023 to 10.10.2023		o Date of Receipt of Sample	10.10.2023		
Sampling Procedure	As per metho	od reference			
The second		Date of Completion of Analysis	12.10.2023		

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
ŝ.	Sulphur Dioxide (SO ₂)	hð/w ₂	10.1	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	hð\w ₂	13.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMte	hð\un _a	46	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m²	14	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No.15-30
6	Carbon Monoxide (CO)	mg/m³	0.94	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 15-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12.2019. Amd 04 Date 18.07.2023

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TEST REPORT



Report No.: ME-0604231010 ULR No.: TC748723000016245F Date: 14.10.2023

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

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	144	Report No.:	ME-0605231010		Date: 14.10.2023	
	百姓	ULR No.	TC748723000016246F		No.	
Name and Address of Customer		Plot No. B- Center, Pos	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, drapur (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023		
	Sample Ambie Description / Type		Sampling Done by	Laboratory PM ₁₀ : Filter Paper 1 X 3 No. PM ₂₅ : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder		
Sampling Location		Near Switch Yard	Sample Quantity / Packing			
	Date of Sampling 09.10.2023 10.10.2023			10.10.2023	scootto dy i mosti	
	Sampling Procedure	As per meth	iod reference			
	Date of Start of Analysis	10.10.2023	Date of Completion of Analysis	12.10.2023		

Sr. No.	Parameter	Unit	Result	#NAAQS	Mathod Reference
¥.	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m²	10.7	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No.1-5
2	Nitrogen Dioxide (NO ₂)	µg/m ^a	12.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No 7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	µg/m²	50	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m³	13	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
6	Carbon Monoxide (CO)	mg/m ³	0.98	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12 2019. Amd 04 Date 18.07 2023

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TEST REPORT



Report No.: ME-0605231010 ULR No.: TC748723000016246F Date: 14.10.2023

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

Sr. Parameter		Unit	Result	#NAAQS	Method Reference			
Date of Start of 18.10.202 Analysis		18.10.2023	the second se	Date of Completion of Analysis		20.10.2023		
Sam	pling Procedure	As per meth	od referen	ce .				
NEWSCOLD, NEWSCOLD, NUMBER OF STREET, NEWSCOLD, NE		16.10.2023 17.10.2023	CARDINE TO RECEIVE THE TWO MAY AND THE CONTRACT RECEIVED IN THE			18 10 2023		
Sam	pling Location	Near CHP		Sample Quantity / Packing		PM ₁₀ : Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder		
Sam Desc	ple cription / Type	Ambient Air	Sam	pling Done by	1	Laboratory		
Name and Address of Customer Center, Post & Tehsil Dist: Chandrapur (M.		habala, MIDC Growth SO Date: 10.0 Tehsil: Warora,			169725			
١Ç		ULR No.:	TC748723	3000016723F			Jes 1	
6	1. A.	Report No.:		E-1117231017			Date: 23.10.2023	
- 2	Sole.	- C	To set the surgeon					

No.	Parameter	Onk	Result	#NAMAG	
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO2)	µg/m²	7.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	µg/m ³	10.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollufants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	µg/m ^a	54	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m ³	17	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No. 15-30
6	Carbon Monoxide (CO)	mg/m³	0.75	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12.2019. Amd 04 Date 18.07.2023 Reviewed and authorised by







PLOT NOS 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA Phone: 0712-2612162/2612212 email: nagpur@mahabal.com

TEST REPORT



Report No.: ME-1117231017 ULR No.: TC748723000016723F Date: 23.10.2023

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
 - 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
 - 8. This report is not to be reproduced except in full, without the written approval of the laboratory.
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Page 2 of 2 OF/SALE/03 Issue No 03 Date 05.12.2019. Amd 04 Date 18.07.2023 Reviewed and authorised by











In Section

Mahabal Enviro Engineers Pvt. Ltd.

PLOT NOS. 13 14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA Phone: 0712-2612162/2612212 email: nagpur@mahabal.com

TEST REPORT

				17	
	Report No.:	ME-1118231017		Date: 23.10.2023	
	ULR No.:		61		
Name and Address of Customer	Plot No. B-1 Center, Pos	MR WARORA ENERGY LIMITED. ot No. B-1, Mohabala, MIDC Growth enter, Post & Tehsil: Warora, st: Chandrapur (M.S.)		169725 1.2023	
Sample Ambient A Description / Type		Sampling Done by	Laboratory		
Sampling Location	Near Resen	oir Sample Quantity / Packing	PM ₁₀ : Filter Paper 1 X 3 No. PM ₂₅ : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder		
Date of Sampling	16.10.2023 17.10.2023	to Date of Receipt of Sample	eceipt of Sample 18.10.2023		
Sampling Procedure	As per meth	od reference			
Date of Start of Analysis	18.10.2023	Date of Completion of Analysis	20.10.2023		

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m²	10.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 1-6
2	Nitrogen Dioxide (NO2)	µg/m ³	14.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	µg/m³	44	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m ³	14	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
6	Carbon Monoxide (CO)	mg/m ³	0.81	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07 2023









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TEST REPORT



Report No.: ME-1118231017 ULR No.: TC748723000016724F Date: 23 10 2023

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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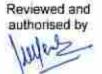
TEST REPORT

24424	Report No.: ME		Date: 23.10.2023		
CAPE.	ULR No : TO	748723000016725F		1	
Name and Address of Customer	Plot No. B-1, M	A ENERGY LIMITED. Iohabala, MIDC Growth Tehsil: Warora, our (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023		
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory		
Sampling Location	Near Switch Yard	Sample Quantity / Packing	PM ₁₀ : Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₇ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder		
Date of Sampling	16.10.2023 to 17.10.2023	Date of Receipt of Sample	18.10.2023		
Sampling Procedure	As per method	reference			
Date of Start of Analysis	18.10.2023	Date of Completion of Analysis	20.10.2023		

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m ³	9.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	µg/m ^a	13.4	80	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMto	hð\w _a	45	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	15	60	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
6	Carbon Monoxide (CO)	mg/m ^s	0.86	84	CPC8 Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 OF/SALE/03 Issue No 03 Date 05.12.2019. Amd 04 Date 18.07.2023









PLOT NOS. 13.14.17.18, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA Phone: 0712-2612162/2612212 email: nagpur@mahabal.com

TEST REPORT



Report No.: ME-1119231017 ULR No.: TC748723000016725F Date: 23.10.2023

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3 Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

	Report No .:		Date: 30.10.2023		
ing s	ULR No.:	TC748723000017188F		147	
Name and Address of Customer	Plot No. B-1 Center, Pos	RA ENERGY LIMITED. , Mohabala, MIDC Growth t & Tehsil: Warora, rapur (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023		
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory		
Sampling Location	Near CHP	Sample Quantity / Packing	PM ₁₀ : Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder		
Date of Sampling	e of Sampling 23.10.2023 to Date of Receipt of Sample 25.10 24.10.2023		25.10.2023	25 10 2023	
Sampling Procedure	As per meth	od reference			
Date of Start of Analysis	26.10.2023	Date of Completion of Analysis	27.10.2023		

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m²	9.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No. 1-6
2	Nitrogen Dioxide (NOz)	µg/m ^a	12.4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutents, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMie	µg/m³	62	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PMzs	µg/m ^a	20	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
6	Carbon Monoxide (CO)	mg/m³	0.80	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12.2019 Amd 04 Date 18.07.2023

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TEST REPORT



Report No .: ME-1605231025 TC748723000017188F ULR No :

Date: 30.10.2023

BQL: Below Quantification Limit. Note: 1.

- LOQ: Limit of Quantification. 2
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- 6. #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM25. Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

66.60	Report No.:	Report No.: ME-1606231025					
DEP.	ULR No :	TC748723000017189F		1 1			
Name and Address of Customer	Plot No. B- Center, Pos	ORA ENERGY LIMITED. I, Mohabala, MIDC Growth t & Tehsil: Warora, Irapur (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023				
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory				
Sampling Location	Near Resen	oir Sample Quantity / Packing	PM ₁₀ : Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder				
Date of Sampling	23.10.2023 to Date of Receipt of Sample 25.10.2023 24.10.2023		25.10.2023				
Sampling Procedure	As per meth	od reference					
Date of Start of Analysis	26.10.2023	Date of Completion of Analysis	27.10.2023				

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð/w ₃	10.4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No. 1-6
2	Nitrogen Dioxide (NOz)	µg/m³	13.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	µg/m³	50	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m ³	18	60	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
6	Carbon Monoxide (CO)	mg/m ³	0.76	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12.2019 Amd 04 Date 18.07.2023

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TEST REPORT



Report No.: ME-1606231025 ULR No.: TC748723000017189F Date: 30.10.2023

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
 - 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
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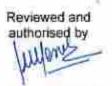
TEST REPORT

Contraction of the second	Report No.:	ME-1607231025		Date: 30.10.2023	
	ULR No.	TC748723000017190F	A ST		
Address of Customer Plot No. B-1, N		ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, Irapur (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023		
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory		
Sampling Location	Near Switch Yard	Sample Quantity / Packing	PM ₁₀ : Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder		
Date of Sampling	23.10.2023 24.10.2023	to Date of Receipt of Sample	25,10,2023		
Sampling Procedure	As per meth	od reference			
Date of Start of Analysis	26.10.2023	Date of Completion of Analysis	27.10.2023		

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m ^a	8.5	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	hð(w)	11.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM10	hð\w _a	53	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m³	16	60	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
6	Carbon Monoxide (CO)	mg/m³	0.75	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019 Amd 04 Date 18.07 2023









PLOT NOS. 13.14.17, 15. GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA Phone: 0712-2612162/2612212 email: nagpur@mahabal.com

TEST REPORT



Report No.:	ME-1607231025	Date: 30.10.2023
ULR No :	TC748723000017190F	- A

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

	hanned by Constrained					
	1000	Report No.: N	E-0552231107	Date: 11.11.2023		
1	回到现	ULR No T	ULR No TC748723000017998F			
Name and Address of Customer		Plot No. B-1,	A ENERGY LIMITED. Mohabala, MIDC Growth & Tehsil: Warora, apur (M.S.)	SO No.: 4800169725 SO Date: 10.04,2023		
	Sample Description / Type	Ambient Air	Sampling Done by	Laboratory		
	Sampling Location	Near CHP Sample Quantity / Packing		PM ₁₀ , Pb: Filter I PM _{2.5} : Filter Pap SO ₂ :30 mL X 6 N NO ₂ :30 mL X 6 N CO: 2L X 3No. 6	er 1 X 1 No. No. PVC Bottle No. PVC Bottle	
ĺ	Date of Sampling	06.11.2023 to 07.11.2023	Date of Receipt of Sample	07.11.2023		
	Sampling Procedure	As per method	I reference			
		Date of Completion of Analysis	11.11.2023			

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO2)	µg/m³	8.7	80	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	hð/w _a	10.2	80	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMte	µg/m²	54	100	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I. 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m³	21	60	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Lead (as Pb)	µg/m²	BQL (LOQ:0.02)	01	CPC8 Guidelines for the Measurement of Ambient Air Pollutiants, Volume I, 2012-13, Page No.48-55
6	Carbon Monoxide (CO)	mg/m³	0.76	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 OF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07 2023 Reviewed and authorised by







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TEST REPORT



Report No. ME-0552231107 ULR No. TC748723000017998F Date: 11.11.2023

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia, 1 h. TWA in case of Carbon Monoxide, Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
 - 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

E1:2E				
335.7K	Report No.:	ME-0553231107	Date: 11.11.2023	
	ULR No :	TC748723000017999F	100	
Name and Address of Customer	Plot No. B- Center, Po	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, drapur (M.S.)	SO No. 4800169725 SO Date 10.04.2023	
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory	
Sampling Location	Near Reser	voir Sample Quantity / Packing	PM ₁₀ , Pb. Filter Paper 1 X 3 No. PM ₂₅ : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO. 2L X 3No. Gas Bladder	
Date of Sampling	06.11.2023 07.11.2023		07.11.2023	
Sampling Procedure	As per met	nod reference		
Date of Start of Analysis	08.11.2023	Date of Completion of Analysis	1111.2023	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO2)	hð\w ₃	9.5	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	hð/w ₂	11.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I. 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM12	µg/m ^a	52	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	17	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
50	Lead (as Pb)	hð/wa	BQL (LOQ 0.02)	Ø1	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
6	Carbon Monoxide (CO)	mg/m ³	0.74	.04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 OF/SALE/03 Issue No 03 Date 05 12 2019 Amd 04 Date 18 07 2023

Reviewed and authorised, by

Harish Mendhi Technical Manager Chemical Testing



RC-744



PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA Phone: 0712-2612162/2612212 email: nagpur@mahabal.com

TEST REPORT



Report No.: ME-0553231107

ULR No : TC748723000017999F

Date: 11.11.2023

- Note: 1. BQL Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling, 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅. Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Atsenic and Nickel.
 - 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
 - 8 This report is not to be reproduced except in full, without the written approval of the laboratory.
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Page 2 of 2 QF/SALE/03 Issue No 03 Date 05.12.2019 Arnd 04 Date 18.07.2023 Reviewed and authorised by









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TEST REPORT

1347	Report No.	ME-0554231107		Date: 11.11.2023
	ULR No.	TC748723000018000F		276
Name and Address of Customer	Plot No. B-1 Center, Pos	DRA ENERGY LIMITED. I, Mohabala, MIDC Growth It & Tehsil: Warora, Irapur (M.S.)	THE SECOND CONTRACTOR OF STREET	169725 2023
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory	
Sampling Location	Near Switch Yard	Sample Quantity / Packing	SOz 30 mL X 6 No. PVC Bott NOz 30 mL X 6 No. PVC Bott CO. 2L X 3No. Gas Bladder	
Date of Sampling	06.11.2023	Date of Receipt of Sample		
Sampling Procedure	As per meth	od reference		
Date of Start of Analysis	08.11.2023	Date of Completion of Analysis	11.11.2023	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð\w _a	10.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	hð yn j	11.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMie	hð\w _a	46	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m²	20	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No 15-30
5	Lead (as Pb)	hð\w _a	BQL (LOQ:0.02)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
6	Carbon Monoxide (CO)	mg/m ^a	0.77	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22 (NER method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019 Amd 04 Date 18.07 2023 authorised by

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TEST REPORT



Report No: ME-0554231107 ULR No: TC748723000018000F Date: 11.11.2023

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide. Nitrogen Dioxide, PMio. PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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In section

Mahabal Enviro Engineers Pvt. Ltd.

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TEST REPORT

		Commentation Lotter address with a second seco					
1	1000	Report No.	ME-1144231114	Date 21 11 2023			
		ULR No :	TC748723000018513F	347			
	Name and Address of Customer	Plot No. B- Center, Por	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, drapur (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023			
į	Sample Description / Type	Ambient Air	Sampling Done by	Laboratory			
	Sampling Location	Near CHP	Sample Quantity / Packing	PM ₁₀ : Filter Paper 1 X 3 No. PM _{2.6} : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder			
	Date of Sampling	13.11.2023 14.11.2023	to Date of Receipt of Sample	14.11.2023			
	Sampling Procedure	As per meth	od reference				
	Date of Start of Analysis	14.11.2023	Date of Completion of Analysis	17.11.2023			

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð\w _a	12.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	µg/m ³	14.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMie	hð/wa	58	100	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PM2.5	µg/m³	20	60	CPCB Guidelines for the Measurement of Amizient Air Pollutiants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m³	0.75	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07.2023

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TEST REPORT



Report No. ME-1144231114 ULR No. TC748723000018513F Date: 21 11 2023

Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PMis, PM25, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

	Report No.: ME-	1145231114		Date: 21 11 2023		
EXA	ULR No : TC7	48723000018514F		27		
Name and Address of Customer		2 SALE SALE NOVES	SO No. 4800169725 SO Date: 10.04 2023			
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory			
Sampling Location	Near Reservoir	Sample Quantity / Packing	PM ₁₀ , Pb. Filter P PM _{2.5} : Filter Pape SO ₂ :30 mL X 6 N NO ₂ :30 mL X 6 N CO: 2L X 3No G	er 1 X 1 No lo. PVC Bottle lo. PVC Bottle		
Date of Sampling	13 11 2023 to 14 11 2023	Date of Receipt of Sample	E A DE LE REAL DE LE RE			
Sampling Procedure	As per method reference					
Date of Start of Analysis	14.11.2023	Date of Completion of Analysis	17.11.2023			

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð/w ₂	12,9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	hð/w _a	13.9	80	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMig	µg/mª	58	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m³	24	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m ³	0.88	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019 Amd 04 Date 18 07 2023

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TEST REPORT



Report No: ME-1145231114 ULR No: TC748723000018514F Date: 21.11.2023

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PMio, PM₂₅. Lead and Ammonia, 1 h. TWA in case of Carbon Monoxide, Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
- 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
- 8. This report is not to be reproduced except in full, without the written approval of the laboratory.
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TEST REPORT

			18 m 19 m		
100000	Report No.:	ME-1146231114	Date: 21.11.2023		
百 €92	ULR No	TC748723000018515F			
Name and Address of Customer	Plot No. B- Center, Por	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, drapur (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023		
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory		
Sampling Location	Near Switch Yard	h Sample Quantity / Packing	PM ₁₀ Filter Paper 1 X 3 No. PM _{2.5} Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder		
Date of Sampling	13.11.2023 14.11.2023		14.11.2023		
Sampling Procedure	As per meth	od reference			
Date of Start of Analysis	14.11.2023	Date of Completion of Analysis	17.11.2023		

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð\w _a	8.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NOz)	hð,w ₃	11.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMie	hð\w _a	65	100	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No 11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m²	26	60	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m ³	0,78	04	CPC8 Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 18-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019 Amd 04 Date 18.07 2023

Reviewed and authorised by 010







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TEST REPORT



Report No. ME-1146231114 ULR No TC748723000018515F Date: 21.11.2023

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PMid, PMid
- 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

	1.00 2.00		E	In a Water	
64332	Report No ::		Date: 27.11.2023		
Des	ULR No	TC748723000018840F		100	
Name and Address of Customer	Plot No. B- Center, Pos	DRA ENERGY LIMITED. I, Mohabala, MIDC Growth It & Tehsil: Warora, Irapur (M.S.)	SO No. 4800169725 SO Date 10.04.2023		
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory		
Sampling Location	Near CHP	Sample Quantity / Packing	PMin: Filter Pape PM25: Filter Pape SO2:30 mL X 6 N NO2:30 mL X 6 N CO: 2L X 3No. G	er 1 X 1 No. Io. PVC Bottle Io. PVC Bottle	
Date of Sampling	20.11.2023 21.11.2023	Date of Receipt of Sample	e 21.11.2023		
Sampling Procedure	As per meth	od reference			
Date of Start of Analysis	art of 22.11.2023 Date of Completion of Analysis		23 11 2023		

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð/w _a	11.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	µg/m³	13.4	80	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM10	µg/m ^a	61	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m ³	25	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Carbon Monoxide (CO)	mg/m ^a	0.80	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07 2023

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TEST REPORT



Report No.: ME-1529231121 ULR No.: TC748723000018840F Date: 27.11.2023

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
- 7 The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

		ILSI KEFOKI		
13.34	Report No : ME		Date: 27.11.2023	
0525	ULR No : TC	748723000018841F		1001
Name and Address of Customer	Plot No. B-1, M	ENERGY LIMITED. ohabala, MIDC Growth Tehsil: Warora, ur (M.S.)		169725 2023
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory	
Sampling Location	Near Reservoir	Sample Quantity / Packing	PM ₁₀ , Pb: Filter (PM _{2.5} : Filter Pap SO ₂ 30 mL X 6 N NO ₂ 30 mL X 6 N CO: 2L X 3No. 0	er 1 X 1 No. No. PVC Bottle No. PVC Bottle
Date of Sampling	20.11.2023 to 21.11.2023	Date of Receipt of Sample	21.11.2023	
Sampling Procedure	As per method r	elerence	<u> </u>	
Date of Start of Analysis	22.11.2023	Date of Completion of Analysis	23.11.2023	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m²	14.1	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	hð\w ₃	15.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I. 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	µg/m³	64	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m³	23	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m³	0.91	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07.2023

Reviewed and authorised by 0119







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TEST REPORT



Report No.: ME-1530231121 ULR No.: TC748723000018841F Date: 27.11.2023

- Note: 1. BQL. Below Quantification Limit.
 - 2. LOQ Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia, 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

566752	Report No.	ME-1531231121	Date: 27.11.2023		
	ULR No :	TC748723000018842F			
Name and Address of Customer	Plot No. B- Center, Por	DRA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, drapur (M.S.)	SO No.: 4800169725 SO Date: 10.04,2023		
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory		
Sampling Location	Near Switch Yard	u Sample Quantity / Packing	PM10: Filter Paper 1 X 3 No. PM25: Filter Paper 1 X 1 No. SO230 mL X 6 No. PVC Bottle NO230 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder		
Date of Sampling	20.11.2023 21.11.2023	to Date of Receipt of Sample	21.11.2023		
Sampling Procedure	As per meth	od reference			
Date of Start of Analysis	22.11.2023	Date of Completion of Analysis	23.11.2023		

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m ^a	12.7	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-5
2	Nitrogen Dioxide (NO2)	µg/m ^a	14.6	80	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMto	hð/wa	54	100	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/mª	21	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m³	0.82	64	CPC8 Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07.2023









PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA Phone: 0712-2612162/2612212 email: nagpur@mahabal.com

TEST REPORT



Report No ME-1531231121 ULR No TC748723000018842F Date: 27.11.2023

- Note: 1. BQL Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅. Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
 - 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

1.2.2.2.2.								11
2	1.1	Report No.:	eport No.: ME-1991231128					Date: 02.12.2023
	ES-2	ULR No	TC74	18723	000019283F			1837
Name and Address of Customer							SO No. 4800169725 SO Date: 10.04.2023	
Sample Description / Type		Ambient Air		Sampling Done by			Laboratory	1
San	ppling Location	Near CHP		Sample Quantity / Packing		g	PM ₁₀ Filter Paper 1 X 3 No. PM _{2.5} Filter Paper 1 X 1 No. SO ₂ 30 mL X 6 No. PVC Bottle NO ₂ 30 mL X 6 No. PVC Bottle CO ² 2L X 3No. Gas Bladder	
Date	e of Sampling	ampling 27 11.2023 to 28.11.2023			of Receipt of	of Sample	28.11.2023	
San	npling Procedure	As per meth	nod ref	eference				
Date of Start of Analysis		29.11.2023			Date of Completion of An		30.11.2023	
Sr. No.	Parameter		U	Init	Result	#NAAQS	Method Reference	
	Discipline: Cher Product Group:							

	Product Group: Atmospheric Pollution (Ambient Air)				
Ħ	Sulphur Dioxide (SO2)	µg/m³	12.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	hð\w ₃	14.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMia	hð\w ₃	57	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	hð\w ₃	24	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m³	0.81	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 15-22, (NDIR method)

END OF REPORT

Page 1 of 2 OF/SALE/03 Issue No 03 Date 05 12 2019 Amd 04 Date 18.07 2023

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TEST REPORT



Report No. ME-1991231128 ULR No.: TC748723000019283F Date: 02 12 2023

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

		*	TEST REPORT		
	区现在	Report No.:	ME-1992231128		Date: 02.12.2023
2		ULR No.	TC748723000019284F		
	Name and Address of Customer	Plot No. B- Center, Po	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, drapur (M.S.)	SO No.: 48001 SO Date: 10.04	
ž	Sample Description / Type	Ambient Air	Sampling Done by	Laboratory	-
	Sampling Location	Near Reser	voir Sample Quantity / Packing	PM ₁₀ , Pb: Filter Pape PM _{2.5} : Filter Pape SO ₂ :30 mL X 6 No NO ₂ :30 mL X 6 No CO: 2L X 3No. Ga	r 1 X 1 No. o. PVC Bottle o. PVC Bottle
	Date of Sampling	27.11.2023 28.11.2023		28.11.2023	
	Sampling Procedure	As per meth	nod reference		
	Date of Start of Analysis	29.11.2023	Date of Completion of Analysis	30.11.2023	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð/wa	14.4	80	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	hð\w ₃	15.4	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants: Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM10	µg/m³	55	100	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	hð/w3	20	60	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m ³	0.79	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12.2019. Amd 04 Date 18.07.2023







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TEST REPORT



Report No. ME-1992231128 ULR No. TC748723000019284F Date: 02 12 2023

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅. Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

17:20 10:1			- A	
	Report No.:	ME-1993231128	Date: 02.12.20	023
11 t 27 C	ULR No :	TC748723000019285F	184	
Name and Address of Customer	Plot No. B- Center, Pos	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, frapur (M.S.)	SO No. 4800169725 SO Date 10.04,2023	
Sample Description / Type	Amblent Air	Sampling Done by	Laboratory	
Sampling Location	Near Switch Yard	Sample Quantity / Packing	PM ₁₀ Filter Paper 1 X 3 No. PM ₂₅ Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder	
Date of Sampling	27.11.2023 28.11.2023	to Date of Receipt of Sample	28.11.2023	
Sampling Procedure	As per meth	od reference		
Date of Start of Analysis	29.11.2023	Date of Completion of Analysis	30.11.2023	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð\w ₂	13.8	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	µg/m²	15.1	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants: Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	µg/m²	58	100	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m³	22	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m ³	0,60	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 OF/SALE/03 Issue No 03 Date 05.12.2019. Amd 04 Date 18.07.2023 Reviewed and authorised by





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TEST REPORT



Report No.: ME-1993231128 ULR No.: TC748723000019285F Date: 02.12.2023

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3 Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

12020120				
23202	Report No:	ME-0294231205	Date: 11.12.2023	
OR SER	ULR No.:	TC748723000019694F		1.22
Name and Address of Customer	Plot No. B- Center, Pos	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, drapur (M.S.)		169725
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory	
Sampling Location	Near CHP	Sample Quantity / Packing	PM ₁₀ , Pb: Filter PM _{2.5} : Filter Pap SO ₂ :30 mL X 6 NO ₂ :30 mL X 6 CO: 2L X 3No. 0	No. PVC Bottle No. PVC Bottle
Date of Sampling	04.12.2023 05.12.2023	feasing the second s	05.12.2023	
Sampling Procedure	As per meth	od reference		
Date of Start of Analysis	06.12.2023	Date of Completion of Analysis	11.12.2023	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð\w _y	12.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	րը/mշ	14.7	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants: Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMie	µg/m ³	64	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PM25	hð\w _a	25	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Lead (as Pb)	hð/w _a	BQL (LOQ:0.02)	01	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
6	Carbon Monoxide (CO)	mg/m ³	0.86	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12 2019 Amd 04 Date 18.07 2023 Reviewed and authorised by







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TEST REPORT



Report No.: ME-0294231205 ULR No.: TC748723000019694F

Date: 11.12.2023

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia, 1 h. TWA in case of Carbon Monoxide, Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

				1.2		
2454 44	Report No.: ME-0295231205 Date: 11.12.2					
07684	ULR No.: TC	748723000019695F		101		
Name and Address of Customer	Plot No. B-1, M	ENERGY LIMITED. ohabala, MIDC Growth Tehsil: Warora, ur (M.S.)	25000 St. 1250 St. 1250 St. 1250 St. 1250	169725		
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory			
Sampling Location	Near Reservoir	Sample Quantity / Packing	PMio, Pb: Filter Pap PM25: Filter Pap SO2:30 mL X 6 N NO2:30 mL X 6 N CO: 2L X 3No. 0	er 1 X 1 No. No. PVC Bottle No. PVC Bottle		
Date of Sampling	04.12.2023 to 05.12.2023	Date of Receipt of Sample	05.12.2023			
Sampling Procedure	As per method r	eference				
Date of Start of Analysis	06.12.2023	Date of Completion of Analysis	11.12.2023			

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO2)	hð\w ₃	11.5	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 1-6
2	Nitrogen Dioxide (NO2)	hð\w ₃	15.8	80	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM10	µg/m³	61	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PM25	hð\w ₃	23	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Lead (as Pb)	µg/m³	BQL (LOQ 0.02)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
6	Carbon Monoxide (CO)	mg/m ⁹	0.73	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 OF/SALE/03 Issue No 03 Date 05.12 2019. Amd 04 Date 18.07.2023 Reviewed and authorised by







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TEST REPORT



Report No: ME-0295231205 ULR No: TC748723000019695F Date: 11.12.2023

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

	400.00	Report No.:	ME-0296231205		Date: 11.12.2023
1		ULR No.:	TC748723000019696F		de la
	Name and Address of Customer	Plot No. B- Center, Por	ORA ENERGY LIMITED. 1, Mohabaia, MIDC Growth st & Tehsil: Warora, drapur (M.S.)	13120 B B B B B B B B B B B B B B B B B B B	169725
	Sample Description / Type	Ambient Air	Sampling Done by	Laboratory	
	Sampling Location	Near Switch Yard	n Sample Quantity / Packing	PM ₁₀ , Pb. Filter I PM ₂₅ Filter Pap SO ₂ :30 mL X 6 N NO ₂ :30 mL X 6 N CO: 2L X 3No. 6	er 1 X 1 No. No. PVC Bottle No. PVC Bottle
	Date of Sampling	04.12.2023 05.12.2023	Concernance and a second s	05 12 2023	
	Sampling Procedure	As per meth	iod reference	·	
	Date of Start of Analysis	06.12.2023	Date of Completion of Analysis	11.12.2023	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð\w _a	10.7	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-5
2	Nitrogen Dioxide (NO2)	hð/w _a	13.7	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	hð/w _a	60	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PMzs	hð\w _a	21	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Lead (as Pb)	hðyuus	BQL (LOQ:0.02)	01	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
6	Carbon Monoxide (CO)	mg/m³	0.79	04	CPC8 Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12 2019. Amd 04 Date 18.07.2023 Reviewed and authorised by







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TEST REPORT



Report No.: ME-0296231205 ULR No.: TC748723000019695F Date: 11.12.2023

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

1000	Report No.:	Date: 20.12.2023	
■ €₽2	ULR No.:	TC748723000020096F	1
Name and Address of Cuslomer	Plot No. B- Center, Pos	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, drapur (M.S.)	SO No.: 4800169725 SO Date: 10.04 2023
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory
Sampling Location	Near CHP	Sample Quantity / Packing	PMio, B(a), Ni, As, Pb: Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle NH ₃ :10 mL X 24 No. PVC Bottle O ₃ :10 mL X 24 No. PVC Bottle Charcoal Tubes 1 X 6 No. CO 2L X 3No. Gas Bladder
Date of Sampling	11.12.2023 12.12.2023	to Date of Receipt of Sample	12.12.2023
Sampling Procedure	As per meth	od reference	
Date of Start of Analysis	12 12 2023	Date of Completion of Analysis	20 12 2023

Sr. No.	Parameter	Unit	Result	INAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð _i w ₃	15.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	µg/m³	18.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM10	µg/m³	52	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	hâ\w ₂	26	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Ozone (O3)	hðiw ₃	BQL (LOQ:19.6)	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07.2023 Reviewed and authorised by







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Mahabal Enviro Engineers Pvt. Ltd.

PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA Phone: 0712-2612162/2612212 email: nagpur@mahabal.com

TEST REPORT

ŝ			Report No.:	ME-074	4231212			Date: 20.12.2023	
		92	ULR No.:	TC7487	23000020096F			101	
S	r.	Parameter		Unit	Result	INAAQS	Method Refer	ance	
6		Lead (as Pb)		hð\w _a	BQL (LOQ:0.02)	01	A 4 A STATE OF A 1 A STATE OF A 1 A STATE	uldelines for the Measurement of Air Pollutants, Volume I, 2012-13, 48-55	
7		Carbon Monox	ide (CO)	mg/m ³	0.79	04	Ambient Air Po	nes for the Measurement of stutants Volume-II, 2012-13, 2. (NDIR method)	
8		Ammonia (NH	x)	µg/m³	20.0	400	A DESCRIPTION OF THE OWNER OF THE	nes for the Measurement of vilutants, Volume I, 2012-13, 9	
9		Benzene (CsH	e)	µg/m ³	1.25	05	IS 5182 (Part	IS 5182 (Part 11): 2006	
1	0	Benzo(a)Pyrer (Particulate ph		ng/m³	BQL (LOQ:0.5)	01	Up the other the other that the	CPCB Guidelines for the Measurement of Anibient Air Pollutants, Volume I, 2012-13, Page No.40-42	
1	1	Arsenic (as As	3	ng/m³	BQL (LOQ:0.3)	06	CPCB Guidelines for the Measurement of Amblent Air Pollutants, Volume I, 2012-13, Page No.48-55		
1	2	Nickel (as Ni)		ng/m ^a	3.07	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55		

- Note: 1. BQL Below Quantification Limit.
 - 2 LOQ Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5 NAAQS: National Ambient Air Quality Standard
 - 6 #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
 - 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
 - 8. This report is not to be reproduced except in full, without the written approval of the laboratory.
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TEST REPORT

100	Report No.:	ME-0745231212		Date: 20.12.2023	
O'REA	ULR No.	TC748723000020097F		per l	
Name and Address of Customer	Plot No. B-1 Center, Pos	RA ENERGY LIMITED. , Mohabala, MIDC Growth t & Tehsil: Warora, rapur (M.S.)	SO.No.: 4800 SO Date: 10.04	169725	
Sample Description / Type			Laboratory	1	
Sampling Location	Near Reserv	oir Sample Quantity / Packing	PM ₁₀ , B(a), Ni, A Filter Paper 1 X PM ₂₅ Filter Pap SO ₂ 30 mL X 6 1 NO ₂ 30 mL X 6 1 NH ₃ 10 mL X 24 1 Charcoal Tubes CO 2L X 3No. G	3 No. ver 1 X 1 No. No. PVC Bottle No. PVC Bottle No. PVC Bottle No. PVC Bottle 1 X 6 No.	
Date of Sampling	11.12.2023 t 12.12.2023	o Date of Receipt of Sample	12.12.2023		
Sampling Procedure	As per metho	od reference			
Date of Start of Analysis	12.12.2023	Date of Completion of Analysis	20.12.2023		

Sr. No.	Parameter	Unit	Result	INAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð,w _a	12.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	µg/m³	15.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	hð\w ₃	67	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2 Sµm) or PM ₂₅	µg/m³	25	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Ozone (O ₂)	µg/m³	BQL (LOQ:19.6)	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019 Amd 04 Date 18.07.2023

Harish Mendhi

Reviewed and authorised by

Technical Manager Chemical Testing





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TEST REPORT



Report No. ME-0745231212 ULR No. TC748723000020097F

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
6	Lead (as Pb)	µg/m³	BQL (LOQ:0.02)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
7	Carbon Monoxide (CO)	mg/m ²	0.75	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
8	Ammonia (NHs)	hð\w ₃	BQL (LOQ 20)	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No.35-39
9	Benzene (CoHo)	µg/m ^a	1.16	05	IS 5182 (Part 11): 2006
10	Benzo(a)Pyrene (Particulate phase only)	ng/m³	BQL (LOQ:0.5)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
11	Arsenic (as As)	ng/m ^a	BQL (LOQ:0.3)	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
12	Nickel (as NI)	ng/m³	BQL (LOQ:3)	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I. 2012-13, Page No.48-55

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- 6 #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nilrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
- 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
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Harish Mendhi Technical Manager Chemical Testing







Date: 20.12.2023



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TEST REPORT

Πķ									in Summi
÷.	100	Report No.:	ME-	0746	231212				Date: 20.12.2023
D?	3 3 34	ULR No.:	TC748723000020098F						1
1.000	ne and ress of Customer		-1, Mo st & T	haba Tehsi					169725
Alternation Council		Ambient Ail	n				Lat	oratory	
San	Sampling Location Near Switch Sample		antity / Packing Filter PM2 SO2 NO2 NH5 O3:10 Char		PMm, B(a), Ni, As, Pb: Filter Paper 1 X 3 No. PM2.5: Filter Paper 1 X 1 No. SO2:30 mL X 6 No. PVC Bottle NO2:30 mL X 6 No. PVC Bottle NH5:10 mL X 24 No. PVC Bottle O3:10 mL X 24 No. PVC Bottle Charcoal Tubes: 1 X 6 No. CO:2L X 3No. Gas Bladder				
Date	e of Sampling	11.12.2023 12.12.2023	1.55	Date	ate of Receipt of Sample		12 12 2023		
San	pling Procedure	As per met	hod re	od reference					
12411-02	Date of 12.12.2023 Start of Analysis		Q.	Date of Completion of Analysis		20 12 2023			
Sr. No.	Parameter		Unit	t	Result	BNAA	QS	Method Refere	nce
	Discipline: Cher Testing: Produc Atmospheric Po (Ambient Air)	t Group:							
1	Sulphur Dioxide (SO ₂)	ug/m	13	12.9	80		CPCB Guidelin	es for the Measurement of

	Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m ^a	12.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	hð\w ₃	17.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMie	µg/m ³	41	100	CPCB Guidelines for the Measurement of Amblent Air Pollutants, Volume I, 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m ³	20	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No. 15-30
5	Ozone (O3)	hð\w _a	BQL (LOQ: 19.6)	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 16 07 2023 Reviewed and authorised by







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TEST REPORT



Sr.

No.

 Report No.
 ME-0746231212
 Date: 20.12.2023

 ULR No.:
 TC748723000020098F
 Method Reference

 Parameter
 Unit
 Result
 INNAAQS
 Method Reference

 Lead (as Pb)
 up/m³
 BQL
 01
 CPC8 Guidelines for the Measurement of the Measu

6	Lead (as Pb)	hð/w _a	BQL (LOQ:0.02)	01	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No.48-55
7	Carbon Monoxide (CO)	mg/m ³	0.80	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
8	Ammonia (NH ₃)	hð _{ima}	21.3	400	CPCB Guidelines for the Massurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No. 35-39
9	Benzene (C ₆ H ₆)	µg/m²	1.15	05	IS 5182 (Part 11) 2006
10	Benzo(a)Pyrene (Particulate phase only)	ng/m ^o	BQL (LOQ:0.5)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No 40-47
11	Arsenic (as As)	ng/m ^ə	BQL (LOQ.0.3)	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No 48-55
12	Nickel (as Ni)	ng/m³	BQL (LOQ:3)	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No.48-55

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Amblent Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
- 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
- 8. This report is not to be reproduced except in full, without the written approval of the laboratory.
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TEST REPORT

	Discipline: Chen	nical Tection		-				
Sr. Parameter No.			U	nit	Result	#NAAQS	Method Reference	
Date Anal	e of Start of lysis	19.12.2023		Date Com	of pletion of Ar	alysis	23.12.2023	
Sam	pling Procedure	As per meth	nod refe	rence	•			
Date	of Sampling	18 12.2023 19.12.2023		Date	of Receipt of	of Sample	19 12 2023	
Sampling Location		Near CHP		Sam; Quar	ole itity / Packin	9	PM ₁₀ : Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder	
	Sample Ambient Air Description / Type			Sampling Done by			Laboratory	
	ne and ress of Customer	GMR WAR Plot No. B- Center, Por Dist: Chan	1, Moh st & Te	abala hsil:	, MIDC Gro Warora,	2	DADA ARDINA BOSTON	169725
0525		ULR No.:	1.674	8/234	J00020573F	ă		
坞		Report No.:	and the state	IE-1264231219 C748723000020573F				Date: 25.12.2023
		RS 0.021	19.97 20					Second

NO.				1.00	and the second
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m³	15.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	hð/w _a	18.2	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	hð/w _a	56	100	CPC8 Guidelines for the Measurement of Amblent Air Pollulants, Volume I, 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PM25	hð\w ₃	23	60	CPC8 Guidelines for the Measurement of Ambient Air Pollulants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m³	0.82	64	CPC8 Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 OF/SALE/03 Issue No 03 Date 05.12.2019. Amd 04 Date 18.07.2023 Reviewed and authorised by







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TEST REPORT



Report No.: ME-1264231219 ULR No.: TC748723000020573F Date: 25.12.2023

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

3					and the second
	2.1.22	Report No.: ME		Date: 25.12.2023	
1		ULR No TO	748723000020574F		12
	Name and Address of Customer	Plot No. 8-1, N	A ENERGY LIMITED. Iohabala, MIDC Growth Tehsil: Warora, pur (M.S.)	SO No. 48001 SO Date 10.04.	69725
	Sample Description / Type	Ambient Air	Sampling Done by	Laboratory	
	Sampling Location	Near Reservoir	Sample Quantity / Packing	PM ₁₀ , Pb: Filter P PM _{2.5} : Filter Pape SO ₂ :30 mL X 6 Ni NO ₂ :30 mL X 6 Ni CO: 2L X 3No. Ga	r 1 X 1 No. o. PVC Bottle o. PVC Bottle
	Date of Sampling	18 12 2023 to 19 12 2023	Date of Receipt of Sample	19.12.2023	
	Sampling Procedure	As per method	reference		
	Date of Start of Analysis	19.12.2023	Date of Completion of Analysis	23.12.2023	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m²	11.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	µg/m³	14.9	80	CPCB Guidelinen for the Measurement of Ambient Air Pollutents, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMto	µg/m³	61	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	hð\ui ₃	22	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
δ.	Carbon Monoxide (CO)	mg/m³	0.92	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07 2023 Reviewed and authorised by







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TEST REPORT



Report No. ME-1265231219 ULR No.: TC748723000020574F Date: 25.12.2023

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

				1.17
Torth?	Report No.:		Date 25.12.2023	
0.954	ULR No	TC748723000020575F		1 1
Name and Address of Customer	Plot No. B-1 Center, Pos	RA ENERGY LIMITED. , Mohabala, MIDC Growth t & Tehsil: Warora, rapur (M.S.)		4 2023
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory	
Sampling Location	Near Switch Yard	Sample Quantity / Packing	PM10: Filter Pap PM25: Filter Pap SO2:30 mL X 6 NO2:30 mL X 6 CO: 2L X 3No.	oer 1 X 1 No. No. PVC Bottle No. PVC Bottle
Date of Sampling	18.12.2023 t 19.12.2023	o Date of Receipt of Sample	19.12.2023	
Sampling Procedure	As per metho	od reference		
Date of Start of Analysis	19.12.2023	Date of Completion of Analysis	23.12.2023	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO2)	hð\un	10,9	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	µg/m²	15,4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No 7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	hð\w _a	63	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	24	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m³	0.78	64	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12.2019. Arnd 04 Date 18.07.2023 Reviewed and authorised by







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TEST REPORT



Report No.: ME-1266231219 ULR No : TC748723000020575F Date: 25.12.2023

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
 - 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

	TEST NEPONT								
1255	Report No :	Date: 01.01.2024							
司法	ULR No .:	TC748723000020986F		100					
Name and Address of Customer	Plot No. B- Center, Por	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, drapur (M.S.)	(SAB) 5000 (1) 0607.41	169725 2023					
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory						
Sampling Location	Near CHP	Sample Quantity / Packing	PM ₁₀ : Filter Pape PM _{2.5} : Filter Pape SO ₂ :30 mL X 6 N NO ₂ :30 mL X 6 N CO: 2L X 3No. G	er 1 X 1 No. Io. PVC Bottle Io. PVC Bottle					
Date of Sampling	25.12.2023 26.12.2023	to Date of Receipt of Sample	26.12.2023						
Sampling Procedure	As per meth	od reference							
Date of Start of Analysis	26.12.2023	Date of Completion of Analysis	29.12.2023						

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m³	13.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	µg/m³	15.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	µg/m³	56	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/mª	23	60	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m ^a	0,79	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 15-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019 Amd 04 Date 18.07 2023 Reviewed and authorised by







PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA Phone: 0712-2612162/2612212 email: nagpur@mahabal.com

TEST REPORT



Report No.: ME-1692231225 ULR No.: TC748723000020986F Date: 01.01.2024

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
- 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
- 8. This report is not to be reproduced except in full, without the written approval of the laboratory.
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TEST REPORT

100 - 5	Report No.:	ME-1693231225		Date: 01.01.2024			
	ULR No .:	TC748723000020987F		101			
Name and Address of Customer	Plot No. B- Center, Pos	ORA ENERGY LIMITED. , Mohabala, MIDC Growth t & Tehsil: Warora, irapur (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023				
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory	T			
Sampling Location	npling Location Near Reservoir Sample Quantity / Packing		PM ₁₀ , Pb: Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder				
Date of Sampling 25.12.2023 to 26.12.2023		o Date of Receipt of Sample	26.12.2023				
Sampling Procedure	ampling Procedure As per method reference						
Date of Start of Analysis			29.12.2023				

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)		1		
1	Sulphur Dioxide (SO ₂)	µg/m³	14,4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	µg/m ^a	16.5	80	CPCB Guidelines for the Measurement of Ambient Air Pollutents, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	µg/m ³	58	160	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	hð/w _a	25	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Carbon Monoxide (CO)	mg/m ³	0.87	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12.2019. Amd 04 Date 18.07.2023 Reviewed and authorised by







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TEST REPORT



 Report No.
 ME-1693231225
 Date: 01.01.2024

 ULR No.
 TC748723000020987F
 Image: Comparison of the second secon

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

CALL .	Report No .:	ME-1694231225		Date: 01.01.2024
面积处	ULR No.:	TC748723000020988F		51
Name and Address of Customer	Plot No. B- Center, Pos	DRA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, frapur (M.S.)	SO No.: 4800 SO Date: 10.04	169725 1.2023
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory	
Sampling Location	Near Switch Yard	Sample Quantity / Packing	PM10: Filter Pap PM25: Filter Pap SO2:30 mL X 6 f NO2:30 mL X 6 f CO: 2L X 3No. C	er 1 X 1 No. No. PVC Bottle No. PVC Bottle
Date of Sampling 25.12.2023 to 26.12.2023		to Date of Receipt of Sample	26.12.2023	
Sampling Procedure	As per meth	od reference		
Date of Start of Analysis	26.12.2023	Date of Completion of Analysis	29.12.2023	

Sr. No,	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m³	12.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	hð\ws	17.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	hð/w _a	54	100	CPCB Guidelines for the Measurement of Ambient Air Pollutarits, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	21	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m³	0.82	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12.2019. Amd 04 Date 18.07.2023 Reviewed and authorised by







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TEST REPORT



Report No.: ME-1694231225 ULR No.: TC748723000020988F Date: 01.01.2024

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

LU 33, LU			1 - A
Report No.: ME-0031240102			Date: 08.01.2024
	ULR No	TC748724000000017F	1 1
Name and Address of Customer	Plot No. B- Center, Por	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, drapur (M.S.)	SO No. 4800169725 SO Date: 10.04 2023
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory
Sampling Location	Near CHP	Sample Quantity / Packing	PM ₁₀ ,Pb: Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SQ ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder
Date of Sampling	01.01.2024	to Date of Receipt of Sample	02 01 2024
Sampling Procedure	As per meth	od reference	
Date of Start of Analysis	02.01.2024	Date of Completion of Analysis	08.01.2024

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO2)	hð/w ₃	11.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	hð\w ₂	15.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMte	hð\w ₃	53	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m³	20	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m ³	0.74	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
6	Lead (as Pb)	hð\w ₂	BQL (LOQ:0.02)	01	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I. 2012-13, Page No.48-55

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12.2019 Amd 04 Date 18.07.2023 Reviewed and authorised by





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TEST REPORT



Report No. ME-0031240102 ULR No.: TC748724000000017F Date: 08.01.2024

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

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-6	382	Report No.	ME-00	3224	0102			Date: 08.01.2024	
Ēt	99. 19.	ULR No :	TC748	37240	00000018F			1	
	ne and ress of Gustomer		1, Mohi st & Te	abala hsil:		and the second se	SO No.: 48001 SO Date: 10.04	-7-70A/SOE	
San Des	iple cription / Type	Ambient Air	ţ.	Sampling Done by			Laboratory		
San	pling Location	Near Reser	voir	Sample Quantity / Packing		ng	PM ₁₀ , Pb: Filter Paper 1 X 3 No. PM ₂₅ : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder		
CONTRACTOR (1970)		01.01.2024	0.007	Date of Receipt of Sample		01	02.01.2024		
San	pling Procedure	As per meth	hod refe	od reference					
Date of Start of Analysis		02.01.2024		Date of Completion of		malysis	08.01.2024		
Sr. No.	Parameter		Ur	nit	Result	#NAAQS	Method Reference		
	Discipline: Cher	nical Testing		-					

No.					
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO2)	µg/m²	13.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	hð\w ₂	16.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMie	hð\w _a	58	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	22	50	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Carbon Monoxide (CO)	mg/m ³	0.89	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
6	Lead (as Pb)	hð/w ₃	BQL (LOQ:0.02)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants; Volume I, 2012-13, Page No 48-55

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019 Amd 04 Date 18.07 2023

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TEST REPORT



Report No.: ME-0032240102 ULR No.: TC748724000000018F Date 08.01.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling, 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia, 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

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O'AB	ULR No	TC74872400000019F		101	
Name and Address of Customer	Plot No. B- Center, Pos	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, drapur (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023		
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory		
Sampling Location	Near Switch Yard	i Sample Quantity / Packing	PM10, Pb: Filter PM25; Filter Pap SO2:30 mL X 6 NO2:30 mL X 6 CO: 2L X 3No. 0	No. PVC Bottle No. PVC Bottle	
Date of Sampling	01.01.2024	to Date of Receipt of Sample	02.01.2024		
Sampling Procedure	As per meth	od reference			
Date of Start of Analysis	02.01.2024	Date of Completion of Analysis	08 01 2024		

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO2)	hð/w _o	14.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No. 1-6
2	Nitrogen Dioxide (NO2)	^د m ^y	18.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	hð/w _a	61	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PMzs	hð\w ₃	24	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m³	0.97	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR methiod)
6	Lead (as Pb)	µg/m³	BQL (LOQ:0.02)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07.2023 Reviewed and authorised by





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TEST REPORT



Report No.: ME-0033240102 ULR No.: TC748724000000019F Date: 08.01.2024

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

	Report No.:	ME-0461240109	Date: 13.01.2024
	ULR No.:	TC748724000000416F	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Name and Address of Customer	Plot No. B- Center, Pos	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, drapur (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory
Sampling Location	Near CHP	Sample Quantity / Packing	PM ₁₀ , Pb: Filter Paper 1 X 3 No. PM _{2.5} Filter Paper 1 X 1 No. SO ₂ 30 mL X 6 No. PVC Bottle NO ₂ 30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder
Date of Sampling	08.01.2024 09.01.2024	to Date of Receipt of Sample	09.01.2024
Sampling Procedure	As per meth	iod reference	
Date of Start of Analysis	10.01.2024	Date of Completion of Analysis	12.01.2024

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO2)	µg/m²	17.8	80	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-5
2	Nitrogen Dioxide (NO2)	µg/m³	21.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMto	µg/m ^a	72	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM2.5	hð\w _a	31	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m³	0.82	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 OF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07 2023 Reviewed and authorised by

Harish Mendhi Technical Manager

Chemical Testing







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TEST REPORT



Report No.: ME-0461240109 ULR No.: TC748724000000416F Date: 13.01.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PMto, PM25, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

	Report No.:	ME-0462240109	Date: 13.01.2024
0783	ULR No :	TC748724000000417F	
Name and Address of Customer	Plot No. B- Center, Por	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth at & Tehsil: Warora, drapur (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory
Sampling Location	Near Reser	voir Sample Quantity / Packing	PM ₁₀ , Pb: Filter Paper 1 X 3 No. PM ₂₅ : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder
Date of Sampling	08.01.2024 09.01.2024	to Date of Receipt of Sample	09.01.2024
Sampling Procedure	As per meth	od reference	
Date of Start of Analysis	10.01.2024	Date of Completion of Analysis	12.01.2024

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
3	Sulphur Dioxide (SO2)	µg/m²	16.0	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	hð\w _a	19:5	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants; Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMte	hð\w ₃	67	100	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m³	29	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Carbon Monoxide (CO)	mg/m ³	0.97	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 15-22, (NDIR method)

END OF REPORT

Page 1 of 2 OF/SALE/03 Issue No 03 Date 05 12 2019 Arnd 04 Date 18.07 2023 Reviewed and authorised by







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TEST REPORT



Report No.: ME-0462240109 ULR No.: TC748724000000417F Date: 13.01.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ Limit of Quantification.
 - 3. Duration of Sampling 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PMio, PMis, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

	Report No::	Date: 13.01.2024	
	ULR No		
Address of Customer Address of Customer Biot No. B-1, Mohabala, MIDC Growth Center, Post & Tehsil: Warora, Dist: Chandrapur (M.S.)		SO No. 4800169725 SO Date: 10.04.2023	
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory
Sampling Location	Near Switch Yard	Sample Quantity / Packing	PM ₁₀ , Pb. Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder
Date of Sampling 08.01.2024 to 09.01.2024		to Date of Receipt of Sample	09.01.2024
Sampling Procedure	As per meth	od reference	
Date of Start of Analysis	10.01.2024	Date of Completion of Analysis	12.01.2024

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
đ	Sulphur Dioxide (SO ₂)	hð/wa	13.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	µg/m ^a	19.2	80	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMio	µg/m ^a	70	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PM2s	µg/mª.	28	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m³	0.91	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 OF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07.2023 Reviewed and authorised by







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TEST REPORT



Report No.: ME-0463240109 ULR No.: TC748724000000418F Date: 13.01.2024

- Note: 1 BQL Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

E Sale	Report No.:	ME-1028	240116			Date: 20.01.2024
in the second	ULR No	Harves Shares	4000000939F			151
Name and Address of Customer	Plot No. B- Center, Po			Nohabala, MIDC Growth & Tehsil: Warora,		169725
Sample Description / Type	Ambient Air	Sar			Laboratory	
Sampling Location	Near CHP	100000			PM ₁₀ : Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SO _{2.30} mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO. 2L X 3No. Gas Bladder	
Date of Sampling	15.01.2024		Date of Receipt of Sample		e 16.01.2024	
Sampling Procedure	As per meth	nod referen	ice			
Date of Start of Analysis	17.01.2024		Date of Completion of Analysis		19.01.2024	
Sr Parameter		Linit	Result	INAAOS	Method Reference	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m³	16.2	80	CPC8 Guidelines for the Measurement of Ambient Air Pollutents, Volume 1, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	µg/m³	19.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I. 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM10	µg/m²	77	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m ³	30	60	CPCB Guidelines for the Measurement of Ambient Air Pollutents, Volume I, 2012-13, Page No.15-30
5	Carbon Monoxide (CO)	mg/m ³	0.88	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019 Arnd 04 Date 18.07 2023 Reviewed and authorised by







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TEST REPORT



Report No.: ME-1028240116 ULR No.: TC748724000000939F Date: 20.01.2024

- Note: 1. BQL Below Quantification Limit.
 - 2 LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

				51	
	Report No.	ME-1029240116		Date: 20.01.2024	
前沒	ULR No.	TC748724000000940F		51	
Address of Customer Plot I Center		ORA ENERGY LIMITED. I, Mohabala, MIDC Growth It & Tehsil: Warora, Irapur (M.S.)	SO No.: 4800169725 SO Date 10.04 2023		
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory		
Sampling Location	All the number of the second s		PM ₁₀ : Filter Paper 1 X 3 No. PM ₂₅ : Filter Paper 1 X 1 No. SO ₂ 30 mL X 6 No. PVC Bottle NO ₂ 30 mL X 6 No. PVC Bottle CO. 2L X 3No. Gas Bladder		
Date of Sampling 15.01.2024 to Date of Rece 16.01.2024 Sample		ANY I DEVELOP A DOWN TO DOT 10 COMM	16.01.2024		
Sampling Procedure	As per meth	od reference			
Date of Start of Analysis	17.01.2024	Date of Completion of Analysis	19.01.2024 is		

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m³	17.1	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	ug/m³	20.7	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMto	µg/m³	67	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants; Volume 1, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	hðíwa	27	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m ^o	0.97	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07 2023 Reviewed and authorised by







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TEST REPORT



Report No.: ME-1029240116 ULR No.: TC748724000000940F Date: 20.01 2024

- Note: 1. BQL: Below Quantification Limit.
 - 2 LOQ: Limit of Quantification.
 - 3. Duration of Sampling 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

			UP:	1 P P
200,200	Report No : ME	5-1030240116		Date: 20.01 2024
	ULR No : TO	748724000000941F		1
Name and Address of Customer	Plot No. B-1, M	A ENERGY LIMITED. Iohabala, MIDC Growth Tehsil: Warora, our (M.S.)	1000 C	169725 4.2023
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory	Ŧ
Sampling Location	Near Switch Yard	Sample Quantity / Packing	PM ₁₀ : Filter Pap PM ₂₅ : Filter Pap SO ₂ :30 mL X 6 NO ₂ :30 mL X 6 CO: 2L X 3No.	per 1 X 1 No. No. PVC Bottle No. PVC Bottle
Date of Sampling	15.01.2024 to 16.01.2024	Date of Receipt of Sample	e 16.01.2024	
Sampling Procedure	As per method	reference		
Date of Start of Analysis	17.01.2024	Date of Completion of Analysis	19.01.2024	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m³	16.4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	µg/m ^a	20.5	80	CPCB Guidelines for the Measurement of Ambient Air Pollufants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMi0	µg/m³	68	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m³	28	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m ^ə	1.02	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07 2023









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TEST REPORT



Report No: ME-1030240116 ULR No: TC748724000000941F Date: 20.01.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

1000	Report No.	ME-1526240124	Date: 27.01.2024
	ULR No.:	TC748724000001427F	
Name and Address of Customer	Plot No. B-1 Center, Pos	RA ENERGY LIMITED. , Mohabala, MIDC Growth t & Tehsil: Warora, rapur (M.S.)	SO No. 4800169725 SO Date 10.04/2023
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory
Sampling Location	Near CHP	Sample Quantity / Packing	PM ₁₀ , Filter Paper 1 X 3 No. PM _{2.5} , Filter Paper 1 X 1 No. SO ₂ 30 mL X 8 No. PVC Bottle NO ₂ 30 mL X 6 No. PVC Bottle CO. 2L X 3No. Gas Bladder
Date of Sampling	ate of Sampling 23.01.2024 to Da 24.01.2024		24.01.2024
Sampling Procedure	As per meth	od reference	
Date of Start of Analysis	전력이 방법 같은 것 같아요. 이 전쟁에 가장 것 같아요. 이 집을 다 있었다. 이 것 같아요. 이 것 ? 이 것 같아요. 이 것 같아요. 이 것 같아요. 이 있 ?		25.01.2024

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m ³	17.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutiants, Volume I, 2012-13, Page No 1-6
2	Nitrogen Dioxide (NO2)	hðiw _a	20.3	80	CPCB Guidelines for the Measuroment of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	hð\w ₂	70	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	ug/m ³	28	60	CPCB Guidelines for the Measurement of Amblent Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Carbon Monoxide (CO)	mg/m ³	0.86	04	CPCB Guidelines for the Measurement of Amblent Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12.2019. Amd 04 Date 18.07.2023

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TEST REPORT



Report No ME-1526240124 ULR No : TC748724000001427F Date: 27.01 2024

- Note: 1. BQL Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia, 1 h. TWA in case of Carbon Monoxide, Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

10 M	Report No.:	Report No.: ME-1527240124					
jas -	ULR No .:	TC748724000001428F		20			
Name and Address of Customer	Plot No. B- Center, Pos	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, drapur (M.S.)	SO No.: 48001 SO Date: 10.04	69725 2023			
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory				
Sampling Location			PM ₁₀ : Filter Paper 1 X 3 No. PM ₂₅ : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder				
Date of Sampling	Pate of Sampling 23.01.2024 to 24.01.2024		24.01.2024				
Sampling Procedure	As per meth	od reference					
Date of Start of Analysis	24.01.2024	Date of Completion of Analysis	25.01.2024				

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO2)	hðiu,	10.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-5
2	Nitrogen Dioxide (NO2)	µg/m³	12.4	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM10	µg/m³	57	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m³	29	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m ³	0.94	04	CPCB Guidelines for the Measurement of Amblent Air Pollutants Volume-II, 2012-13; Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12.2019. Amd 04 Date 18.07.2023 Reviewed and authorised by







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TEST REPORT



Report No.: ME-1527240124 ULR No.: TC748724000001428F Date: 27.01.2024

Note: 1. BQL: Below Quantification Limit.

- 2 LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia: 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

1.1.1	Report No. ME	5-1528240124		Date 27.01.2024
回电规	ULR No TC	748724000001429F		
Name and Address of Customer	Plot No. B-1, M	ENERGY LIMITED. Iohabala, MIDC Growth Tehsil: Warora, pur (M.S.)	SO No. 4800 SO Date: 10.04	69725
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory	
Sampling Location Near Switch Yard Date of Sampling 23.01.2024 to 24.01.2024		Sample Quantity / Packing	PM ₁₀ Filter Paper 1 X 3 No. PM _{2.5} Filter Paper 1 X 1 No. SO ₂ 30 mL X 6 No. PVC Bott NO ₂ 30 mL X 6 No. PVC Bott CO: 2L X 3No. Gas Bladder	
		Date of Receipt of Sample 24.01.2024		
Sampling Procedure	As per method i	reference		
Date of Start of Analysis	24.01.2024	Date of Completion of Analysis	25.01.2024	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m³	13.4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	µg/m³	17.4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	µg/m³	62	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	hð/w _a	26	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Carbon Monoxide (CO)	mg/m ³	0.87	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019 Amd 04 Date 18.07 2023

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Reviewed and authorised by







101582101

Mahabal Enviro Engineers Pvt. Ltd.

PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA Phone: 0712-2612162/2612212 email: nagpur@mahabal.com

TEST REPORT

2368	Report No.:	ME-0353240206		Date: 10.02.2024	
	ULR No :	TC748724000002171F			
Name and Address of Customer	Plot No. B- Center, Pos	DRA ENERGY LIMITED. I, Mohabala, MIDC Growth It & Tehsil: Warora, Irapur (M.S.)	SO No. 4800169725 SO Date 10.04.2023		
Sample Description / Type	Ambient Air	Sampling Done by			
Date of Sampling 05.02.2024 to 06.02.2024		Sample Quantity / Packing	PM ₁₀ , Pb: Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO 2L X 3No. Gas Bladder		
		to Date of Receipt of Sample			
Sampling Procedure	As per meth	od reference			
Date of Start of Analysis	06.02.2024	Date of Completion of Analysis	10.02.2024		

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO2)	µg/m³	12.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	hð\w _a	17.2	50	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMto	hð\w ₃	55	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PM2s	hð\w ₂	25	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m ^a	1.05	64	CPC8 Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
6	Lead (as Pb)	hð/w ₃	BQL (LOQ:0.02)	01	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume L 2012-13, Page No 48-55

END OF REPORT

Page 1 of 2 OF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07 2023 Reviewed and authorised by







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TEST REPORT



Report No.: ME-0353240206 ULR No.: TC748724000002171F Date: 10.02.2024

- Note: 1. BQL Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
 - 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
 - 8. This report is not to be reproduced except in full, without the written approval of the laboratory.
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TEST REPORT

	Testera con a construire a		Color 40 00 0000	
UC HILLS	Report No.: ME-	0354240206		Date: 10.02.2024
	ULR No. TC7	48724000002172F		1002 2
Name and Address of Customer	1 112 7 12 7 10 10 10 10 10 10 10 10 10 10 10 10 10		SO No. 48001 SO Date: 10.04	69725 2023
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory	
Sampling Location	Near Reservoir	Sample Quantity / Packing	PM ₁₀ , Pb: Filter P PM _{2.5} : Filter Pape SO ₂ :30 mL X 6 N NO ₂ :30 mL X 6 N CO: 2L X 3No. Gi	o PVC Bottle o PVC Bottle
Date of Sampling	05.02.2024 to 06.02.2024	Date of Receipt of Sample	06.02.2024	
Sampling Procedure	As per method re	ference		
Date of Start of Analysis	06.02.2024	Date of Completion of Analysis	10.02.2024	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	دm/bri	17.3	80	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	hð\w ₃	20.7	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	µg/m²	63	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	hð\w _z	29	60	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m³	0.94	64	CPC8 Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
6	Lead (as Pb)	µg/m³	BQL (LOQ:0.02)	81	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12 2019. Amd 04 Date 18.07.2023 Reviewed and authorised by







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TEST REPORT



Report No. ME-0354240206 ULR No.: TC748724000002172F Date: 10.02.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Amblent Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

	s cuel						100
6	505	Report No.:	ME-035524	40206			Date: 10.02.2024
		ULR No	TC748724	000002173F			61
Name and Address of Customer		GMR WAR Plot No. B- Center, Por Dist: Chan	1, Mohabalı st & Tehsil:	a, MIDC Gro Warora,		SO No. 4800169725 SO Date: 10.04,2023	
San Des	iple cription / Type	Ambient Air	Samp			Laboratory	
San	pling Location	Near Switch Yard	5.77 (C. 1.4.10)	le lity / Packing	Ĭ.	PM ₁₀ ,Pb Filter Paper 1 X 3 No. PM _{2.5} Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder	
Date	e of Sampling	of Sampling 05.02.2024 to 06.02.2024		of Receipt of	f Sample	06.02.2024	
Sair	pling Procedure	As per meth	od referenc	e			
Date of Start of Analysis		15.00 (CC10010000) (CC100		Date of Completion of Analysis		10.02.2024	
Sr. No.	Parameter		Unit	Result	#NAAQS	Method Reference	
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)						
1	Sulphur Dioxide (SO ₂)	µg/m ³	13.6	80	CPC8 Guidelines for t	he Measurement of Ambier

1	Supra Diaxide (SOI)	Parte	ANGM		Air Poliutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	hð\w ₃	18,4	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMie	hð\w ₃	60	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	hð\w _a	28	60	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	rm\gm	0.89	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-IL 2012-13, Page No. 16-22, (NDIR method)
6	Lead (as Pb)	hð\w ₃	BQL (LOQ:0.02)	01	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019 Amd 04 Date 18.07 2023 Reviewed and authorised by







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TEST REPORT



Report No. ME-0355240206 ULR No. TC748724000002173F Date: 10.02.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

		Date: 17.02.2024					
ing.	ULR No	TC7487	24000002691	•		1351	
Name and Address of Customer	Plot No. B-	1, Mohai st & Teh	ERGY LIMITED bala, MIDC Gro sil: Warora, M.S.)			0169725 04.2023	
Sample Description / Type	Ambient Air	S	ampling Done	by	Laboratory		
Sampling Location	Near CHP		Quantity / Packing		PM ₁₀ , Filter Paper 1 X 3 No. PM _{2.6} Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder		
Date of Sampling	12 02 2024 13 02 2024	ANG) 195	late of Receipt	of Sample	13.02.2024		
Sampling Procedure	As per met	hod refer	ence				
Date of Start of Analysis	13 02 2024		ate of Completion of A	nalysis	16.02.2024		
Sr. Parameter		Un	t Result	#NAAQS	Method Reference		

Sr. No.	Parameter	Unit	Result	HNAAUS	Method Remenice
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð/w _a	10.9	08	CPCB Guidelines for the Measurement of Ambient Air Pollutents, Volume I, 2012-13, Page No. 1-6
2	Nitrogen Dioxide (NO ₂)	µg/m ³	15.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMis	hð/w ₂	76	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PM25	hð\w ₂	30	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No.15-30
5	Carbon Monoxide (CO)	mg/m ^a	0.78	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12 2019. Amd 04 Date 18.07 2023

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TEST REPORT



ME-0924240213 Report No.: TC748724000002691F ULR No.:

Date: 17.02.2024

BOL: Below Quantification Limit. Note:

- LOO: Limit of Quantification. 2
- Duration of Sampling: 24h 3.
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- 6. #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM25, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
- The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

5455C	Report No.	ME-0925240213		Date: 17.02.2024	
首次手を	ULR No.:	TC748724000002692F		151	
Name and Address of Customer	Plot No. B- Center, Por	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, drapur (M.S.)	SO No.: 4800169725 SO Date: 10.04 2023		
Sample Description / Type	Amblent Air	Sampling Done by	Laboratory	Ÿ	
Sampling Location	Near Reser	voir Sample Quantity / Packing	PM ₁₀ : Filter Pape PM ₂₅ : Filter Pape SO ₂ :30 mL X 6 N NO ₂ :30 mL X 6 N CO: 2L X 3No. G	ar 1 X 1 No. Io. PVC Bottle Io. PVC Bottle	
Date of Sampling	12 02 2024 13 02 2024	The second	13.02.2024		
Sampling Procedure	As per meth	nod reference			
Date of Start of Analysis	13.02.2024	Date of Completion of Analysis	16.02.2024		

Sr. No.	Parameter	Unit	Result	FNAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m ^a	14.7	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	µg/m³	18.4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM10	hð\w ₂	71	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m ^a	26	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m3	0.81	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 OF/SALE/03 Issue No 03 Date 05.12.2019. Amd 04 Date 18.07.2023 Reviewed and authorised by







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TEST REPORT



ME-0925240213 Report No .: ULR No TC748724000002692F Date: 17.02.2024

BQL: Below Quantification Limit. Note: 1

- LOQ: Limit of Quantification. 2
- 3. Duration of Sampling 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- 6. #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM26, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
- 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
- 8. This report is not to be reproduced except in full, without the written approval of the laboratory.
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TEST REPORT

10146	Report No.: ME-0926240213			Date: 17.02.2024			
	ULR No.:	TC748724000002693F	124				
Name and Address of Customer	Plot No. B- Center, Pos	DRA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, frapur (M.S.)	SO No.: 4800169725 SO Date: 10.04,2023				
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory				
Sampling Location	Near Switch Yard	Sample Quantity / Packing	PM ₁₀ Filter Paper 1 X 3 No. PM _{2.5} Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder				
Date of Sampling	12.02.2024	to Date of Receipt of Sample	13.02.2024				
Sampling Procedure	As per method reference						
Date of Start of Analysis	13.02.2024	Date of Completion of Analysis	16.02.2024 Is				

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Raference	
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)					
1	Sulphur Dioxide (SO ₂)	µg/m²	11.8	80	CPCB Guidelines for the Measurement of Ambient Air Follutants, Volume I, 2012-13, Page No.1-6	
2	Nitrogen Dioxide (NO ₂)	hð\w ₇	16.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-16	
3	Particulate Matter (size less than 10µm) or PM ₁₀	hð\u ₃	55	100	CPCB Guidelines for the Measurement of Amblent Air Pollutants, Volume I, 2012-13, Page No. 11-14	
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	20	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30	
5	Carbon Monoxide (CO)	mg/m ³	0,84	04	CPCB Guidelines for the Measurement of Amblent Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)	

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07.2023 Reviewed and authorised by







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TEST REPORT



Report No. ME-0926240213 ULR No.: TC748724000002693F Date: 17.02.2024

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Amblent Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia, 1 h. TWA in case of Carbon Monoxide, Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
- 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

1			and the second s
423.6	Report No.:	ME-1499240220	Date: 24.02.2024
	ULR No :	TC748724000003216F	
Name and Address of Customer	Plot No. B- Center, Por	DRA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, frapur (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory
Sampling Location	Near CHP	Sample Quantity / Packing	PM ₁₀ , Pb: Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder
Date of Sampling	19.02.2024 20.02.2024	to Date of Receipt of Sample	20.02.2024
Sampling Procedure	As per meth	od reference	
Date of Start of Analysis	21.02.2024	Date of Completion of Analysis	23.02.2024

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m³	11.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	hð\w ₃	16.3	80	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMte	hð\w _a	56	100	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM2.5	µg/m³	25	60	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Carbon Monoxide (CO)	rng/m³	0.94	04	CPC8 Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 OF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07 2023

Harish Mendhi Technical Manager Chemical Testing

Reviewed and authorised by





PLOT NOS. 13.14.17.16, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA Phone: 0712-2612162/2612212 email: nagpur@mahabal.com

TEST REPORT



Report No.: ME-1499240220 ULR No.: TC748724000003216F Date: 24.02.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
 - 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

19.15	Report No.:	ME-1500240220		Date: 24.02.2024
	ULR No	TC748724000003217F		<i>9</i> (
Name and Address of Customer	Plot No. B- Center, Pos	DRA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, frapur (M.S.)	SO No.: 48001 SO Date: 10.04,	2.6.V/20
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory	
Sampling Location	Near Resen	voir Sample Quantity / Packing	PM ₁₀ : Filter Pape PM _{2.5} : Filter Pape SO ₂ :30 mL X 6 N NO ₂ :30 mL X 6 N CO 2L X 3No G	r 1 X 1 No. o. PVC Bottle o. PVC Bottle
Date of Sampling	19.02.2024 20.02.2024	to Date of Receipt of Sample	20.02.2024	
Sampling Procedure	As per meth			
Date of Start of Analysis	21.02.2024	Date of Completion of Analysis	23.02,2024	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m ^a	12.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	hð\w ₅	15.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMte	hð,w _a	65	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m ³	28	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m²	0.73	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019 Amd 04 Date 18.07.2023 Reviewed and authorised by







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TEST REPORT



Report No.: ME-1500240220 ULR No.: TC748724000003217F Date: 24.02.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia, 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

E (63) E 92(3) 25	Report No.:		Date: 24.02.2024			
	ULR No.:		1240220 24000003218F		100(C. 24.02.2024	
Name and Address of Customer	Plot No. B-	1, Mohal st & Teh	ERGY LIMITED. bala, MIDC Growth sil: Warora, M.S.)	SO No. 4800169725 SO Date: 10.04.2023		
Sample Description / Type	Ambient Air	S	ampling Done by	Laboratory		
Sampling Location	Near Switch		ample luantity / Packing	PM ₁₀ , Pb. Filter F PM _{2.5} : Filter Pape SO ₂ :30 mL X 6 N NO ₂ :30 mL X 6 N CO: 2L X 3No. G	er 1 X 1 No. Io. PVC Bottle Io. PVC Bottle	
Date of Sampling 19.02.2024 to 20.02.2024		to D	ate of Receipt of Sample	20.02 2024		
Sampling Procedure	As per meth					
Date of Start of Analysis	21.02.2024	111	ate of ompletion of Analysis	23.02.2024		

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m³	13.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	µg/m ^a	15.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMid	µg/m²	46	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m ³	22	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Carbon Monoxide (CO)	mg/m ³	0.88	D4	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07 2023 Reviewed and authorised by







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TEST REPORT



Report No.: ME-1501240220 ULR No.: TC748724000003218F Date: 24.02.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

22520	Report No:	ME-1894240228	Date: 04.03.2024				
	ULR No.:	TC748724000003590F	1 C 1				
Name and Address of Customer	Plot No. B- Center, Pos	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, drapur (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023				
Sample Ambient Air S Description / Type		Sampling Done by	Laboratory				
Sampling Location	Near CHP	Sample Quantity / Packing	PM ₁₀ , Pb: Filter Paper 1 X 3 No. PM ₂₅ : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder				
Date of Sampling	27.02.2024 28.02.2024	to Date of Receipt of Sample	e 28.02.2024				
Sampling Procedure	As per method reference						
Date of Start of Analysis	28.02.2024	Date of Completion of Analysis	29.02.2024				

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m³	14.5	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	hð\w ₂	20.1	80	CPCB Guidelines for the Measurement of Ambient Air Pollutents, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMm	µg/m³	49	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	hð\w ₃	24	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Carbon Monoxide (CO)	mg/m³	0.80	64	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12.2019.4 Amd 04 Date 18.07.2023 Reviewed and authorised by







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TEST REPORT



Report No.: ME-1894240228 ULR No.: TC748724000003590F Date: 04.03.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

	Report No.:	ME-1895240228	Date: 04.03.2024		
D £192	ULR No :	TC748724000003591F			
Address of Customer Plot No. Center, F		ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, drapur (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023		
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory		
Sampling Location Near Reservol Date of Sampling 27.02.2024 to 28.02.2024		voir Sample Quantity / Packing	PM ₁₀ , Pb: Filter Paper 1 X 3 No. PM ₂₅ : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder		
		to Date of Receipt of Sample	28.02.2024		
Sampling Procedure	As per meth	iod reference			
Date of Start of Analysis	28.02.2024	Date of Completion of Analysis	29.02.2024		

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m²	10.7	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 1-6
2	Nitrogen Dioxide (NO2)	µg/m ^a	14.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM10	hð\w ₃	73	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM2.5	µg/m²	31	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Carbon Monoxide (CO)	mg/m³	0.97	04	CPCB Goldelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019 Amd 04 Date 18.07 2023

Kishor Yeole

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TEST REPORT



Report No: ME-1895240228 ULR No: TC748724000003591F Date: 04.03.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

3333	Report No.: ME	-1896240228		Date: 04.03.2024	
D-192	ULR No .: TO	748724000003592F		21	
Name and Address of Customer	Plot No. B-1, N	ENERGY LIMITED. Iohabala, MIDC Growth Tehsil: Warora, bur (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023		
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory	1	
Sampling Location Near Switch Yard Date of Sampling 27.02.2024 to 28.02.2024		rd Sample Quantity / Packing	PM ₁₀ , Pb: Filter Paper 1 X 3 No. PM _{2.5} . Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder		
		Date of Receipt of Sample	Date of Receipt of Sample 28.02.2024		
Sampling Procedure	As per method	reference			
Date of Start of Analysis	28.02.2024	Date of Completion of Analysis	29.02.2024		

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m³	9,9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	hð\w ₃	13.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	µg/m³	70	100	CPCB Guidelines for the Measurement of Ambient Air Pollutunts, Volume I, 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PM25	hð\w ₃	27	60	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m ³	0.70	64	CPC8 Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12.2019 Amd 04 Date 18.07.2023

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TEST REPORT



Report No: ME-1896240228 ULR No: TC748724000003592F Date: 04.03.2024

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3 Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia: 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

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63332	Report No : ME-0	Date: 09.03.2024		
面积处	ULR No TC74	8724000003949F		52
Name and Address of Customer			25352HUM-TR-1	69725 2023
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory	
Sampling Location	Near Switch Yard	Quantity / Packing		Paper 1 X 3 No. er 1 X 1 No. Io. PVC Bottle Io. PVC Bottle ias Bladder
Date of Sampling 04.03.2024 to 05.03.2024		Date of Receipt of Sample	05.03.2024	
Sampling Procedure	As per method ref	erence		
Date of Start of Analysis	05.03.2024	Date of Completion of Analysis	09.03.2024	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m²	12.1	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	hð\w _a	17.3	80	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMix	hð/w ₂	78	100	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	hð)w _a	31	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Carbon Monoxide (CO)	mg/m ³	0.89	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
6	Lead (as Pb)	µg/m³	BQL (LOQ:0.02)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

END OF REPORT

Page 1 of 2 OF/SALE/03 Issue No 03 Date 05.12.2019. Amd 04 Date 18.07.2023 authorised by

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TEST REPORT



Report No.: ME-0281240305 ULR No.: TC748724000003948F Date: 09.03.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Amblent Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PMie, PMie, PMie, Ead and Ammonia, 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

		IEST REPORT	and the second s
100.01	Report No.:	ME-0281240305	Date: 09.03.2024
	ULR No :	TC748724000003948F	di 1
Name and Address of Customer	Plot No. B- Center, Pos	DRA ENERGY LIMITED. 1, Mohabala, MIDC Growth at & Tehsil: Warora, drapur (M.S.)	SO No.: 4800169725 SO Date: 10.04,2023
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory
Sampling Location	Near Resen	voir Sample Quantity / Packing	PM ₁₀ , Pb: Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder
Date of Sampling	04.03.2024 05.03.2024	to Date of Receipt of Sample	05.03.2024
Sampling Procedure	As per meth	od reference	
Date of Start of Analysis	05.03.2024	Date of Completion of Analysis	09.03.2024

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð\w _a	13.5	60	CPCB Guidelines for the Measurement of Ambient Air Pollutiants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	hð\w _a	16.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutents, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMio	hð/w _s	51	100	CPC8 Gwdelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	hð/ш ₂	24	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Carbon Monoxide (CO)	mg/m ³	0.85	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume II, 2012-13, Page No. 16-22, (NDIR method)
6	Lead (as Pb)	µg/m³	BQL (LOQ:0.02)	01	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

END OF REPORT

Page 1 of 2 OF/SALE/03 Issue No 03 Date 05 12 2019 Amd 04 Date 18 07 2023 Reviewed and authorised by







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TEST REPORT



Report No.: ME-0280240305 ULR No.: TC748724000003947F

Date: 09.03.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia, 1 h. TWA in case of Carbon Monoxide, Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
 - 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
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Page 2 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07.2023 Reviewed and authorised by









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TEST REPORT

	100 DLV	IEST REPORT	<i></i>	
124.23	Report No :	ME-0280240305		Date: 09.03.2024
	ULR No :	TC748724000003947F		64
Name and Address of Customer	Plot No. B- Center, Por	DRA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, drapur (M.S.)	10.2.2.1.1.2.5. (10.2.5)	169725
Sample Description / Type	Ambient Air Sampling Done by		Laboratory	
Sampling Location	Near CHP	Sample Quantity / Packing	PMto, Pb: Filter I PMz S Filter Pap SOz 30 mL X 6 1 NOz 30 mL X 6 1 CO: 2L X 3No. 0	er 1 X 1 No. No. PVC Bottle No. PVC Bottle
Date of Sampling 04.03.2024 to Date of 05.03.2024		to Date of Receipt of Sample	05.03.2024	
Sampling Procedure	As per meth	od reference		
Date of Start of Analysis	05.03.2024	Date of Completion of Analysis	09.03.2024	

Sr. No.	Parameter	Unit	Result	#NAAQS	Mathod Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð/ɯə	14.0	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	µg/m ³	18.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMn	µg/m ³	62	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	hð\w _a	27	50	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Carbon Monoxide (CO)	mg/m ³	0,73	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
6	Lead (as Pb)	µg/m ^a	BQL (LOQ:0.02)	81	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No.48-55

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07 2023 Reviewed and authorised by







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TEST REPORT



Report No.: ME-0282240305 ULR No.: TC748724000003949F Date: 09.03.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

ШĿ	Skill I						1	100	
6	175	Report No	ME-0	80524	0312		Date: 16.03.2024		
D)		ULR No :	TC74	87240	000004418F	ŧ		100	
Name and Address of Customer		Plot No. B- Center, Po	Construction of the second				4,2023		
San	nple cription / Type	Ambient Air	r?	Sampling Done by		Laboratory			
Sampling Location		Near CHP		Sample Quantity / Packing		PM ₁₀ , Pb: Filter Paper 1 X 3 No. PM _{2.5} Filter Paper 1 X 1 No. SO ₂ 30 mL X 6 No. PVC Bottle NO ₂ 30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder			
Date	e of Sampling	11.03.2024		Date of Receipt of Sample			12.03.2024		
Sam	pling Procedure	As per meti	hod refe	erence	B				
	Date of Start of 12.03.2024 Analysis		1	Date of Completion of Analysis		alysis	16.03.2024		
Sr. No.	Parameter	arameter		nit	Result	#NAAQS	Method Reference		
	Discipline: Cher Product Group: Pollution (Ambie	Atmospheric							
	APPENDER STREETING	111111111111		2012	1.000.025	1000	PROPERTY OF A	NUMBER OF STREET	

	Policion (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m ³	11.3	80	CPCB Guidelines for the Measurement of Amblent Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	hð/wa	17.2	80	CPCB Guidelines for the Measurement of Amblest Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	hð(w ₅	59	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PM25	hð\w _a	24	60	CPCB Guidelines for the Measurement of Amblent Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m ^a	0.96	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No: 16-22, (NDIR method)

END OF REPORT

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TEST REPORT



Report No. ME-0805240312 ULR No. TC748724000004418F Date: 16.03.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

- 223					1.00	1.12	
CALL .	Report No.	Report No. ME-0806240312					
	ULR No :	TC7487	24000004419F			21	
Name and Address of Customer	Plot No. B-	1, Mohab st & Tehs	ERGY LIMITED bala, MIDC Gro sil: Warora, A.S.)		SO No. 4800169725 SO Date 10.04 2023		
Sample Description / Type	Ambient Air	4	Sampling Done	by	Laboratory		
Sampling Location	Near Reser		r Sample Quantity / Packing		PM ₁₉ , Pb: Filter Pape PM ₂₅ Filter Pape SO ₂ :30 mL X 6 No NO ₂ :30 mL X 6 No CO: 2L X 3No. Ga	r 1 X 1 No. o. PVC Bottle o. PVC Bottle	
Date of Sampling	11.03.2024 12.03.2024		Date of Receipt of Sample		12.03.2024		
Sampling Procedure	As per meth	nod refere	ince				
Date of Start of Analysis	12.03.2024		Date of Completion of Analysis		16.03.2024		
Sr. Parameter		Unit	Result	#NAAQS	Method Reference		

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð/w _a	9.9	80	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	hð/wa	11.7	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMia	µg/m³	57	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM2s	µg/m²	28	60	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Carbon Monoxide (CO)	mg/m³	0.70	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019 Amd 04 Date 18.07 2023









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TEST REPORT



Report No: ME-0806240312 ULR No: TC748724000004419F Date: 16 03 2024

- Note: 1. BQL Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Amblent Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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Harish Mendhi Technical Manager Chemical Testing



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TEST REPORT

201278	Report No.: ME-0	807240312		Date: 16.03.2024	
	ULR No.: TC74	18724000004420F		197	
Name and Address of Customer				169725 4.2023	
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory		
Sampling Location	Quantity / Packing		PM ₁₀ : Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ 30 mL X 6 No. PVC Bottle NO ₂ 30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder		
Date of Sampling 11.03.2024 to Date 12.03.2024		Date of Receipt of Sample	12.03.2024		
Sampling Procedure	As per method re	ference			
Date of Start of Analysis	12.03.2024	Date of Completion of Analysis	16.03.2024		

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð\w ₂	15.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I. 2012-13, Page No.1-5
2	Nitrogen Dioxide (NO2)	µg/m³	21.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM10	µg/mª	58	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m³	25	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m³	0.99	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12.2019. Amd 04 Date 18.07.2023 Reviewed and authorised by





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TEST REPORT



Report No.: ME-0807240312 ULR No.: TC748724000004420F Date: 16.03.2024

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

	Report No :	ME-1446240319	Da	te: 23 03 2024			
	ULR No.:	ULR No.: TC748724000004898F					
Name and Address of Customer	Plot No. B- Center, Pos	DRA ENERGY LIMITED. I, Mohabala, MIDC Growth at & Tehsil: Warora, frapur (M.S.)	SO No. 4800169725 SO Date: 10.04.2023				
Sample Ambient Air Description / Type		Sampling Done by	Laboratory				
Sampling Location	Near CHP	Sample Quantity / Packing	PM ₁₀ Filter Paper 1 PM ₂₅ Filter Paper 1 SO ₂ :30 mL X 6 No F NO ₂ :30 mL X 6 No F CO: 2L X 3No. Gas	X 1 No. PVC Bottle PVC Bottle			
Date of Sampling 18.03.2024 to 19.03.2024		to Date of Receipt of Sample	19.03.2024				
Sampling Procedure	As per meth	od reference					
Date of Start of Analysis	19.03.2024	Date of Completion of Analysis	22 03 2024				

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð\w ₃	9,5	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	µg/m³	16.4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	hðyw _a	64	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m ³	27	60	CPCB Guidelises for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m ³	1.02	64	CPCB Guidelines for the Measurement of Ambient Air Pollufants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07 2023 Reviewed and authorised by





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TEST REPORT



Report No. ME-1446240319 ULR No.: TC748724000004898F Date: 23.03.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia, 1 h. TWA in case of Carbon Monoxide, Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

LOAD S	Report No.	Date: 23.03.2024			
dr.	ULR No.	TC748724000004899F	1		
Name and Address of Customer	Plot No. B- Center, Po	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, drapur (M.S.)	SO No. 4800169725 SO Date 10.04.2023		
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory		
Sampling Location	Near Reservoir Sample Quantity / Packing		PM ₁₀ : Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder		
Date of Sampling	18.03.2024 19.03.2024		19,03,2024		
Sampling Procedure	As per meth	nod reference			
Date of Start of Analysis	19.03.2024	Date of Completion of Analysis	22.03.2024		

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð\w _a	11.2	90	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	hð\w ₃	19.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMin	µg/m ^a	59	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PM2.5	µg/m ³	28	60	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m ^a	0.98	84	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019 Amd 04 Date 18.07 2023 Reviewed and authorised by





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TEST REPORT



Report No: ME-1447240319 ULR No: TC748724000004899F Date: 23.03.2024

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅. Lead and Ammonia, 1 h. TWA in case of Carbon Monoxide, Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

12 2 2	Report No.	ME-1448240319		Date: 23.03.2024	
03995	ULR No	TC748724000004900F		61	
Name and Address of Customer	Plot No. B-1 Center, Pos	DRA ENERGY LIMITED. , Mohabala, MIDC Growth t & Tehsil: Warora, Irapur (M.S.)	SO No: 4800169725 SO Date: 10.04.2023		
Sample Ambient Air Sampling Done by Description / Type		Sampling Done by	Laboratory		
Sampling Location	Near Switch Yard	Sample Quantity / Packing	PM ₁₀ : Filter Pap PM _{2.6} : Filter Pap SO ₂ :30 mL X 6 I NO ₂ :30 mL X 6 I CO: 2L X 3No. 0	er 1 X 1 No. No. PVC Bottle No. PVC Bottle	
Date of Sampling	18.03.2024 19.03.2024	o Date of Receipt of Sample	19.03.2024		
Sampling Procedure	As per meth	od reference			
Date of Start of Analysis	19.03.2024	Date of Completion of Analysis	22.03.2024		

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO2)	hð\w _a	8.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	hðíwa	14.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMre	hð\uu _s	50	100	CPCB Guidelines for the Messurement of Amblent Air Pollutents, Volume I, 2012-13, Page No. 11-14
4	Particulate Matter (size less than 2.5µm) or PM2.5	hð\w _a	24	60	CPCB Guidelines for the Measurement of Amblent Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Carbon Monoxide (CO)	mg/m²	0.90	04	CPC8 Guidelines for the Measurement of Amblent Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 OF/SALE/03 Issue No 03 Date 05 12 2019. Amd 04 Date 18.07 2023 Reviewed and authorised by







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TEST REPORT



Report No: ME-1448240319 ULR No: TC748724000004900F Date: 23 03 2024

Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
- 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

	Report No. M	Report No.: ME-2309240327					
	ULR No T	C748724000005843F		100			
Name and Address of Customer	Plot No. B-1, M	A ENERGY LIMITED. Mohabala, MIDC Growth Tehsil: Warora, pur (M.S.)	SO No. 4800169725 SO Date: 10.04.2023				
Sample Ambient Air Description / Type		Sampling Done by	Laboratory	18			
Sampling Location	Near CHP	Sample Quantity / Packing	PM ₁₀ . Filter Pa PM ₂₅ : Filter Pap SO ₂ :30 mL X 6 NO ₂ :30 mL X 6 CO: 2L X 3No. 0	er 1 X 1 No. No. PVC Bottle No. PVC Bottle			
Date of Sampling	26.03.2024 to 27.03.2024	Date of Receipt of Sample	e 27.03.2024				
Sampling Procedure	As per method	reference					
Date of Start of Analysis	27.03.2024	Date of Completion of Analysis	03.04.2024				

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m ³	13.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No 1-6
2	Nitrogen Dioxide (NO ₂)	hðұш _а	19,1	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume 1, 2012-13, Page No 7-10
3	Particulate Matter (size less than 10µm) or PMie	µg/m³	56	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	hðywa	23	60	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No:15-30
5	Carbon Monoxide (CO)	mg/m ^a	0.95	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05 12 2019 Amd 04 Date 18 07 2023 Reviewed and authorised by







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TEST REPORT



Report No. ME-2309240327 ULR No: TC748724000005843F Date: 03.04.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₃, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

a 5 3 a				·	11		
	Report No: ME-2310240327						Date 03.04 2024
	ULR No :	TC748	7240	00005844F	6		
Name and Address of Customer	Plot No. B-	1, Moha st & Tel	A ENERGY LIMITED. Mohabala, MIDC Growth & Tehsil: Warora, pur (M.S.)			Protection (U.C.) - estimate	0169725 4,2023
Sample Description / Type	Ambient Air		Sampling Done by			Laboratory	
Sampling Location	Near Reser		Quantity / Packing			PM ₁₀ : Filter Pap PM ₂₅ : Filter Pap SO ₂ :30 mL X 6 NO ₂ :30 mL X 5 CO: 2L X 3No.	per 1 X 1 No. No. PVC Bottle No. PVC Bottle
Date of Sampling	26.03.2024 27.03.2024		Date of Receipt of Sample			27.03.2024	
Sampling Procedure	As per meth	nod refer	rence	ŝ.			
Date of Start of Analysis	27.03,2024		Date of Completion of Analysis			03.04,2024	
Cr Decomptor		1.06		Becult	-	Method Defenses	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
đ	Sulphur Dioxide (SO ₂)	µg/m ³	16.1	80	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	hð\w ₃	22.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMie	µg/m³	53	100	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m³	24	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m ³	1.02	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT

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TEST REPORT



Report No. ME-2310240327 ULR No.: TC748724000005844F Date: 03.04.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

	Report No.:	ME-2311240327		Date: 03.04.2024	
	0,000	TC748724000005845F		32	
Name and Address of Customer	Plot No. B-1	RA ENERGY LIMITED. , Mohabala, MIDC Growth t & Tehsil: Warora, rapur (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023		
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory	8	
Sampling Location	Near Switch	Yard Sample Quantity / Packing	PM ₁₀ , Filter Paper 1 X 3 No. PM ₂₅ Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder		
Date of Sampling	26.03.2024 tr 27.03.2024	Date of Receipt of Sample	27.03.2024		
Sampling Procedure	As per metho	od reference			
Date of Start of Analysis	28.03.2024	Date of Completion of Analysis	03.04.2024		

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
3	Sulphur Dioxide (SO ₂)	hð/w ₂	11.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO2)	hð\w ₂	18.4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM10	µg/m³	60	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	hð\w ₃	26	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m ³	0.78	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NOIR method)

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12 2019 Amd 04 Date 18.07.2023

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TEST REPORT



Report No. ME-2311240327 ULR No.: TC748724000005845F Date: 03.04.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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Kishor Yeole Branch Manager Chemical Testing









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TEST REPORT

	TEOTHEFORT				
tot av	Report No.:	Date: 23.03.2024			
d and a	ULR No.:	TC748724000004901F	stad -		
Name and Address of Customer	Plot No. B- Center, Por	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth at & Tehsil: Warora, drapur (M.S.)	SO No. 4800169725 SO Date: 10.04.2023		
Sample Ambient / Description / Type		Sampling Done by	Laboratory		
Sampling Location	Anandwan Warora	Sample Quantity / Packing	PM ₁₀ , Pb: Filter Paper 1 X 3 No. PM ₂₅ : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder		
Date of Sampling	18.03.2024 19.03.2024	to Date of Receipt of Sample	19.03.2024		
Sampling Procedure	As per meth	od reference			
Date of Start of Analysis	19.03.2024	Date of Completion of Analysis	23.03.2024		

Sr. No.	Parameter	Unit	Result	INAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m³	15.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	hð/w3	17.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM10	µg/m³	56	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	hð\w ₂	27	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30.
5	Carbon Monoxide (CO)	mg/m³	0.96	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
6	Lead (as Pb)	pg/m³	BQL (LOQ:0.02)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No 48-55

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12.2019 Amd 04 Date 18.07.2023 Reviewed and authorised by







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TEST REPORT



Report No. ME-1449240319 ULR No. TC748724000004901F Date: 23.03.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PMio, PMzs, Lead and Ammonia, 1 h. TWA in case of Carbon Monoxide, Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
 - 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

	Report No.:	ME-1450240319	Date: 23.03.2024
	ULR No.	TC748724000004902F	54
Name and Address of Customer	Plot No. B-1 Center, Pos	DRA ENERGY LIMITED. I, Mohabala, MIDC Growth t & Tehsil: Warora, Irapur (M.S.)	SO No. 4800169725 SO Date 10.04,2023
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory
Sampling Location	Temporary Township	Sample Quantity / Packing	PM ₁₀ , Pb; Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder
Date of Sampling	18.03.2024 1 19.03.2024	Date of Receipt of Sample	19.03.2024
Sampling Procedure	As per meth	od reference	
Date of Start of Analysis	19.03.2024	Date of Completion of Analysis	23.03.2024

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m ^a	7.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	µg/m ³	15.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	µg/m ^p	58	100	CPC8 Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	hð/w ₂	26	90	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30.
5	Carbon Monoxide (CO)	mg/m³	0.79	04	CPC8 Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
6	Lead (as Pb)	hð\w ₃	BQL (LOQ:0.02)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 48-55

END OF REPORT

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TEST REPORT



Report No.: ME-1450240319 ULR No.: TC748724000004902F

Date: 23.03.2024

- Note: 1. BQL: Below Quantification Limit.
 - 2. LOQ: Limit of Quantification.
 - 3. Duration of Sampling: 24h
 - 4. TWA: Time Weighted Average
 - 5. NAAQS: National Ambient Air Quality Standard
 - #- NAAQS specified as 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia, 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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Annexure - 7

REPORT ON HYDROGEOLOGICAL STUDY OF GMR WARORA ENERGY LIMITED





TEHSIL - WARORA DIST - CHANDRAPUR MAHARASHTRA

PREPARED BY

S.J CONSULTANTS

915/ I, KHARE TOWN, DHARMPETH, NAGPUR - 440010

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Chapter 1: Introduction

1.1 Preamble

M/S. GMR WARORA ENERGY LTD a subsidiary of GMR Energy Limited Mohabala MIDC, Warora Growth Centre Post Warora Taluka Warora District Chandrapur has established a Thermal Power Unit of2x 300 MW. The hydro-geological study of the area is to be conducted for to fulfill the environmental requirement with respect of hydro geological conditions of the area. The study of the project area, as well as the buffer zone of 5 km, around the project site taking the Thermal station as center is discussed herewith.

1.2 Scope of Work

The scope of work is as under.

- Hydro geological study to assess the impact on the plant with respect to groundwater regime.
- Impact on hydrogeology of surrounding areas with respect to hydrology and usage of water.
- 3. Impact on water regime by abstracting and discharge of water.
- 4. Details of rainwater harvesting plan.

Accordingly, GMR WARORA ENERGY LTD Warora has engaged us for the above assignment as per the order of GMR WARORA ENERGY LTD vide Service order no.4800173185.

1.3 Approach of the Study

The entire buffer zone is considered as a study area. The complete study area is surveyed physically. Probable geological formations, dug wells (DW) / bore-wells (BW) inventory data is collected. The depths of winter and summer static water levels (SWL), their fluctuations, status of irrigation and domestic DW/BW, were recorded. This statistic

helps to draw the water balance and status of ground water development of the area. (Annexure - 1).

Some geophysical probes were also taken up for to confirm the nature of aquifers.

Watersheds are drawn from the drainage pattern of the area. The drainages mostly follow the geological formations, their tectonic behavior and geological structures like faults, folds and intrusions etc. Accordingly with the data and calculation of Water balance of each watershed is the difference between the recharge into water shed and drawl from that watershed. The field data in all villages in watershed was collected and water table fluctuation is determined. Actually, the water shed in which plant is situated will be important. Other watersheds will not affect the plant area zone as discussed in previous pares.

Chapter 2: Study Area

2.1 Location

GMR Warora Energy Ltd. Plant is located near a town Warora in Warora taluka of Chandrapur district. It is within the 78°58'38.54"E; 20°17'16.34"N to 78°58'32.69"E, 20°16'31.54"N and is covered in parts of Survey of India Topo-sheet no. 55 p/3; 55p/4, 55L/15 and 55L/16. (Fig.1)

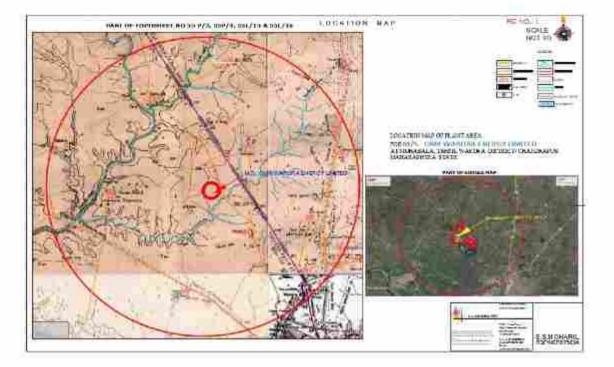


Fig-1

The site is approachable in all seasons by tar roads from all directions. The State highways from Nagpur to Chandrapur and Chandrapur-Yavatmal passes through the buffer zone area. The Grand Trunk railway from Delhi to Chennai passes adjacent to the area. All infrastructure facilities like Electricity, Post-Office, Rest House, Railway Station and bus stand etc. are available within a range of 0.5 to 3 km from the site.

2.2 Climate

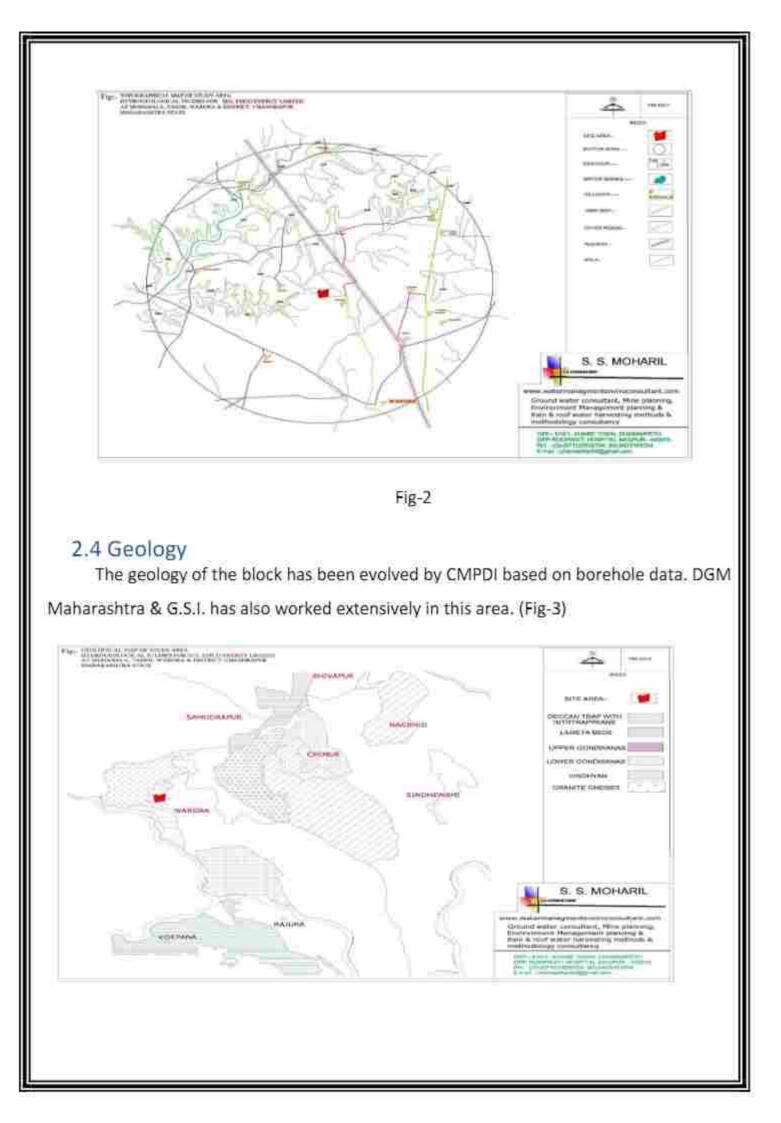
Rainfall– The rainfall in the area is received from the SW monsoon nearly for four months i.e., from June to September every year. The year wise rainfall data from 1994 to 2023 is collected from Warora meteorological station of Warora taluka and yearly average rainfall is 1048. Total rainy days are 50 to 60 in a year.

Temperature – The normal temperature in the area remains from 27^oC to 38^o C. The maximum temperature in summer months' touches to 40^oC to 47^oC, while minimum temperature is 20^oC to 26^oC in December/January months. This data has been obtained from the IMD stations.

2.3 Topography

The area is having a gentle southwesterly slope. Wardha River a major river flows in same direction and is in buffer zone and is 8 to 9 Kms. away from the site. Nearly all the drainages flow in to Wardha River, Outside of Buffer Zone. The general altitude of the area is minimum 200 m to maximum 220m above mean sea level. The northern portion is elevated than the southern part. The average falls of 20 mts is located, that means there is a slope of 2 mts within a span of 1 km; hence it is a gentle slope.

The drainage is simple and is controlled by two seasonal Nala i.e., Shirna Nala and Lendi Nala, which is a tributary of Wardha River. The Shirna Nala is flowing in north to south direction on the eastern boundary of block. The second Lendi Nala is flowing in southwest forming a western boundary. There is no any minor, medium or major irrigation plant in buffer zone & not having the command area of any irrigation project. (Fig.2).



Regional Geology:

The Warora area constitutes the northern part of the Wardha Valley Coalfield and falls in the eastern limb of the regional anticline structure. Most of area of the field is covered by younger formations like the Kamthi's, Lametas and the Basalt's. The older Barakar's are exposed as narrow isolated in layers at places.

The Achaean's and the Vindhyans formations form the basement on which the lower Gondwanas formations were deposited. There is a distinct unconformity between the Barakar's, Mottur's and the overlying Kamthi's.

The Mottur's formation is deposited towards north after village Majra where they are overlain by Mangli's near Village Yensa. Mangli's are of upper Gondwanas formation. Similarly, Mottur's are exposed below soil at NW portion of Warora town below soil cover. They occur near village Karanji, Tulana and beyond Wardha River in Wane taluka also.

The southern area of buffer zone consists of basaltic formation near village Chinora etc. underlain either by Mottur's or Barakar's.

There are two major faults near Majra village due north of area between Mottur's and Kamthi's and due NW near village Dongargaon between Gondwanas and Vindhyans.

The generalized stratigraphic sequence of the buffer zone is tabulated below. This sequence is prepared and produced as per the general geology of the area as narrated by Geological Survey of India.

TABLE - 1 STRATIGRAPHIC SEQUENCE OF BUFFER ZONE AREA

AS PER	GEOLOGICAL	SURVEY	OF INDIA
	the second se		

Age	Format	ion	Lithology
Recent Upper Cretaceous to Eocene Cretaceous	Detrial m Deccan t Lamet	mantle Soil n trap Basalt	
	UNCONFIRM	VITY	·
Lower Triassic	Mangli	Yŧ	ellowish, hard cherty sandstone
Upper Permian	Kamthi's	Yellow, red, brown colored, Sand- stone with clay and shale bands.	
	UNCONFI	RMITY	
Middle Permian Lower Permian Carboniferous	Mottur's Barakar's Talc hair	sand Whit sand seam	stone with Crab shale and coal
	-UNCONFIRMIT	γ	
Pre Cambrian	Vindhva	ins:	Siliceous limestone and shales

Pre Cambrian Vindhyans Siliceous limestone and shales
Local geology of project and buffer block:

The area is mostly covered by a soil mantle, the average thickness of which is 3m to 7m. Rock exposures are very rare in this area.

▲ The Laments underlies the trap in the northern part. The Laments occur below a shallow soil cover. These formations are characterized by cherty limestone. The maximum thickness of Lament's proved in the area is 28.44 m.

▲ The Kamthi's occurs unconformable below the Laments. Kamthi's comprises reddish sandstone and shale. The maximum recorded thickness of Kamthi's in Warora block is 212.44 m. A profound unconformity exists between Kamthi's and Barakar's, in a block.

▲ Motors are absent in the area.

▲ The average thickness of Barakar's is 150m to 170m. Upper 40m to 70m and lower 60m to 80 m. is barren of any coal seams. While middle 20 m is composed of crab shales and coal seams.

▲ Barakar's are underlain by Talchairs and the known thickness is 71.68 m.

TABLE - 2 DETAILS OF STRATIGRAPHIC UNITS IN BLOCK AREA

Formation	Lithology	Thickness range in meters
Soil	Black cotton soil	0.90 to 19.85
Deccan	Basalt	24.99 to 39.00
trap	Cherty limestone, silicified	18.90 to 28.44
Laments	Sandstone& clay	
	UNCOMFIRMITY	
Kamthi's	Yellowish, reddish S. St. and shale	7.95 to 212.44
XII DOCCIII DOCCIII	UNCONFIRMITY	
Barakar's	Grey Sand Stone, Shale, Crab- shale and coal	5.49 to 192.02

	Talc hair		71.63 and more
		Green to dark gray shale	
		UNCOMFIRMITY	
Γ	Vindhyans	Siliceous limestone & shale	

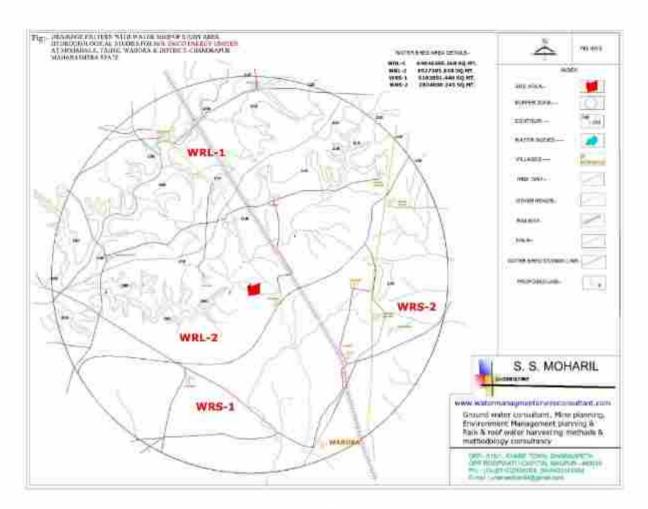
2.5 Hydrogeology

Hydrogeology relates to groundwater conditions with respect of geological formations of that area. Hence the entire buffer zone is considered as a study area. The complete study area is surveyed physically. Probable geological formations, dug wells (DW) / bore-wells (BW) inventory data is collected. The depths of winter and summer static water levels (SWL), their fluctuations, status of irrigation and domestic DW/BW, were recorded. This statistic helps to draw the water balance and status of ground water development of the area. (Annexure - 1).

Some geophysical probes were also taken up for to confirm the nature of aquifers.

WATERSHEDS:

Watersheds are drawn from the drainage pattern of the area. The drainages mostly follow the geological formations, their tectonic behavior and geological structures like faults, folds and intrusions etc. Mostly the watersheds are drawn basin wise such as Wardha, Godavari etc. (Fig. 4).





Groundwater Surveys & Development Agency (G.S.D.A), Government of Maharashtra has drawn the watersheds for whole of Maharashtra. The watersheds are basin wise. Warora block is in Wardha basin and actually in watershed no WREC-2.The extract of above watershed as per G.S.D.A. is as given below:

TABLE – 3 DETAILS FROM GOUNDWATER SURVEYS AND DEVELOPMENT AGENCY (GSDA), GOVT.OF MAHARASHTRA WATERSHED

Sr. No.	Dist.	Water Shed	Index	Dev. stage	Pre monsoon trend	Post monsoon trend	Category
1380	Chandrapur	WREC2	826	23-22	Rising	Rising	Safe

As per G.S.D.A., the Study area is under safe category for development.

▲ To facilitate the proper hydro geological study, the buffer zone is divided into four mini watersheds within the radius of 5 km from the center of the plant. These watersheds are as per the drainage of the area. The groundwater movements generally do not cross the divide line of the watershed and hence the flow of surface water and groundwater restrict themselves to the boundaries of each watershed. Out of these four watersheds, the surface and groundwater movements of three watersheds are away from the watershed. The plant area is located in WRL-II. WRL-I, WRS-I & WRS-2 is having water flowing away from the area and hence they don't have any effect on water shed no. WRL = II.

The details of these watersheds are as follow:

TABLE - 4 DETAILS OF WATERSHED IN STUDY AREA

Sr. No.	Water shed	Area in Hect	No. of villages	No. of DW/BW/ With EM- OE	Average SWL summer in mts	Average SWL in winter in mts	Average fluctuation in mts
1	WRL-1	6403.64	4	210/185	10.24	6.85	3.39
2	WRL-2	652.73	5	232/205	9.90	4.62	5,28
3	WRS-1	518.28	4	127/87	10.90	7.54	3.36
4	WRS-2	282.49	I	557/546	13.05	9.97	3.68

Abbreviations used

DW-Dug Well BW --- Bore Well EM--- Electric Motor OE --- Oil Engine

SWL—Static Water Level

All these watersheds are in plain terrain. But the recuperation will be slow as most of the areas where thick soil and clays are present.

From the study of watersheds derived in the buffer zone area the fluctuation in SWL in WRS-I is less than the other water sheds. This may be due to Basaltic formation and Lametas. Lametas is geological formations. The numbers of wells are more in WRS-2.It means that the development and use of groundwater is more. But this development will not be affecting the water regime of plant area as the groundwater discharge will be away from the plant. This watershed comprises of only one village i.e., Warora. This town is having a population of nearly 1 lakh. Hence the numbers of wells/bore wells are more than the other areas.

Chapter 3: Methodology of data Collection

Soil— Soil is the most important factor in the process of water balance study. Its thickness, texture, consistency has little variance from place to place in the project area. On the extreme north there is a deep and rich black loamy soil overlying the traps which is largely composed of disintegrated trap. The impervious nature of the underlying trap makes soil extremely retentive of moisture. Further south occurs a belt of shallower brown or yellow loam, silt loam overlying sandstone and Lametas formation. This soil drains rapidly and would be of little value without irrigation. Further eastward, again black loam reappears along the banks of Nala section, geologically known as alluvium.

Soil moisture: - To determine the available water capacity the type of soil at WARORA is found out from the soil map. Corresponding to the soil type the average soil type of the area may be considered as silt loam. This is based on basic textural classification coupled with grain size. Thornth Waite and Mather 1957 has published provisional water holding capacities with different combination of soil and vegetation. The same has been taken as accepted value by IMD for all calculation of water balance. Based on the above publication the available water capacity for plant area soil is tabulated in the following table;

TABLE-5 -WATER CAPACITY

Location	Soil type	Available water	Root Zone	Available moisture
		mm/m		retention
Warora	Silt loam	200	1.00	200

The value 200 mm/m has been taken as available water capacity AWC for all climatic water balance calculation of the plant.

Infiltration through Soil: - Rainfall reaching the earth surface infiltrate into the ground. Soil has fine in capacity to absorb the water. The movement of water through the soil surface is known as infiltration and it plays a very significant role in the runoff process by affecting the timing, distribution and magnitude of the surface runoff. Further

infiltration is the primary step in the natural groundwater recharge. Infiltration is inversely proportional to surface runoff. High infiltration contributes less surface runoff of the designated basin.

If the rainfall rate is lower than the initial infiltration capacity of soil, there will be no overland flow, while comparing the infiltration capacity of different conditions in the present study it is found that high infiltration rate is associated with mining activity in the area. The top soil layer become more porous during mining activity in the area due to loosening of the material compared to the non – mining areas.

Infiltration capacity: - Infiltration studies were conducted at selected places to know the soil characteristics. Double ring inflictor-meter technique was used for measuring the infiltration rate. The infiltration rate measured was plotted against cumulative infiltration capacity. The results of infiltration test are mentioned in TABLE No. 2 below.

Type of area	Type of soil	Site infiltration capacity mm/m	Average infiltration capacity mm/m
Pre-mining area A	Clayey	14.0	31.53
В	Sandy clay loam	37.17	31.53
С	Sandy clay loam	37.17	31.53
D	Sandy clay loam	37.17	31.53
В	Sandy loose loam	111.51	31.53

TABLE-6 INFILTRATION TESTS

Resistivity surveys were carried out in 08 places to know the sequence and probable thickness of the formation encountering beneath the project and villages occurring in the buffer zone. The Geophysical surveys comprised of resistivity profiling and Vertical Electrical Soundings (VES) were carried out to cover the entire area of GMR project and buffer zone at Mohabala Village, in Chandrapur district, Maharashtra.

To get the desired information about the prevailing aquifer conditions beneath the GMR project area, the maximum current electrode (AB) spacing for VES were kept 100 m. The VES curves obtained from the area are H, KH, HKH and AKH type in nature, which indicate the wide variation in subsurface hydro geological conditions. The VES cures were interpreted manually by two- and three-layer master curves and by computer software IPI2 Win to get the geo-electric layer parameters. These results were further refined with help of computer aided program SCHLUM through automatic curve matching technique. In this computer aided curve matching technique, an initial model is given for which the computer arrives at the theoretical curve and compares with the field data; then it takes difference between the recomputed and field curves and modifies old model parameters to start with a new model for reducing this difference (error). Again, computed new theoretical curve and compares with the field curve, and sets another new model to reduce the differences. This process of interaction goes on till the error is minimized and finally displays the match between the field and theoretical curves giving the final model parameters. The final results were corroborated with the known hydro geological conditions existing in the area.

The VES curves obtained from the area are H, KH, HKH and AKH type in nature, which indicate the wide variation in subsurface hydro geological conditions. The measured apparent resistivity values have indicated wide variation in resistivity, which vary between 16 ohm-m and 4000 ohm-m. The interpreted results of VES show the presence of 2 to 4 Geo electrical layer sequences in the area within the depth range of about 80 m BGL under the investigated depth range of 100 m. It is also observed that the interpreted layer parameters have the wide range of resistivity variations in different layers. The tube wells have been recommended to drill at VES-1 of 65 m depth and VES-2 of depth 60m.and at VES-3 of 52 mts VES-4 is devoid of water.

As the 5 KM, area under survey around plant is having the Gondwanas sandstone's and Mottur's, thus the tube wells with the combination of blank and perforated casing are proposed. The final interpreted Geo- electrical layer parameters of VES's (layer resistivity and layer thicknesses) are given in table. The above observations are derived from the Geo physical probe taken in 2023 survey.

Seven Geo-physical surveys were carryout in year 2023. The details are given in below table. The same procedure as mentioned above is carried out to calculate probes. It is noticed that at all the seven places, clays are predominant. In Mohabala – Warora road a thin layer of sandstone encountered.

Interpreted Geo-Electrical Layer Parameters of VES Conduct

Geophysical Results 2024

Sr. No · No.	Lay	Layer's Resistivity (ohm-m)						Layer's Thickness (m)			
	No.	ρ1	ρ2	ρ;	ρ4	ρs	h1	h 2	h 3	h 4	Thickn ess (m)
1	1	08	16	22	28	105	04	11	41	44	100
2	2	14	22	35	73	350	02	06	27	65	100
3	3	16	20	42	35	85	06	06	22	66	100
4	4	16	17	19	12	38	02	13	40	45	100
5	5	14	24	17	11	49	02	14	33	51	100
б	6	11	26	21	23		03	10	36	51	100
7	7	07	20	18	16	92	03	18	23	56	100
8	8	15	24	24	12	70	03	27	37	33	100

TABLE-7- Geophysical Results

Chapter 4: Result and Discussion

Water balance of each watershed is the difference between the recharge into water shed and drawl from that watershed. The field data in all villages in watershed was collected and water table fluctuation is determined. Actually, the water shed in which plant is situated will be important. Other watersheds will not affect the plant area zone as discussed in previous pares.

The watershed wise balance is computed as below. Specific yield and rain water infiltration are taken from estimation methodology established by Central Ground Water Board. (C.G.W.B.2015).

Water Shed No. WRL-1:

▲ Recharge by way of rainfall infiltration method as a fraction. As per C.G.W.B 2015

Area Hectare		Rainfall mts			infiltration a fraction	Recharge Ham
6403.64	х	1.048	Х	0.08	=	536.88 ham

Recharge by Water Table fluctuation method:

Area Hectare		Water-table fluctuation in mts	Sp. Yield (As a fraction	Total recharge
6403.64	x	3.39 x	0.015 =	325.62ham

The complete area of watershed is taken into consideration.

★ WITHDRAWAL IN WATER SHED. The withdrawal in this water shed is limited. The crop pattern is mostly cotton. This crop requires a protective irrigation. This irrigation is limited to three months when there are no rains. Hence fraction of water is withdrawn in the year. Hence 1/3 withdrawal is considered for the calculation of annual draft from the existing irrigated dug wells / bore wells.

Rainfall infiltration recharge is considered as a reliable recharge processes. Hence it is considered for further calculations.

1. Total DW/BW	= 210
2. Total DW/BW with EM/OE	= 185
3. Domestic DW/BW	= 25

4. Draft by OE/EM @ 0.52Ham/year

(1/3 of 1.57 Hams as suggested by C.G.W.B)

- 5. Draft of DW/BW for domestic purpose @ 0.1 Ham annually = 2.5Ham
- 6. Hence total draft
- 7. Additional recharge by DW/BW for irrigation purpose

Total water draft in water shed in Ham	Return recharge	에는 바람이 있는 것 것은 것을 가 같다.	for	Recharge
98.7 X	0.2	25	3 7	24.675 Ham
Total water recharge	-	return water	3	= Recharge total
Hence Total recharge=536.	88 +	24.675		= 561.55Ham
Total recharge	- Total V	withdrawal = He	ence l	palance
561.55	- 98.7	= 4	62.85	Ham
Ham Hector-meter). This v	watershe	d has a balance	as m	entioned.

Water Shed No. WRL -II

▲ Recharge by way of Rainfall infiltration method

Area Hectare	9	Rainfall mts			infiltration a fraction	Recharge Ham
652.73	х	1.048	Х	0.08		54.72 Ham.

Recharge by Water Table Fluctuation Method

Area Hectare		Water fluctuation	table in mts	Sp. fracti	Yield on	as	a	Total recharge
652.73	Х	5.28	Х	0.0	=1517)			51.69 Ham

The complete area of watershed is taken into consideration.

▲ Withdrawal in water shed.

1.	Total DW/BW	= 232
2.	Total DW/BW with EM/OE	= 205

- Domestic DW/BW 3. = 27
- Draft by OE/EM @ 0.52Ham/year 4.

= 106.6 Ham

- Draft of DW/BW for domestic purpose @ 0.1 Ham annually = 2.7 Ham 5.
- 6. Hence total draft. = 109.3 Ham

= 96.2 Ham

= 98.7 Ham

7. Additional recharge by DW/BW through irrigation wells

Total water draft in water shed in Ham		Return water		Recharge	
109.3	Х	0.25	# 3	27.32 Ham	

In additions to the recharge by all means in this water shed a rain water harvesting (roof water and surface) is tabulated in artificial recharge chapter. The recharge through this source comes to 83.89ham.

Hence Total recharge = 54.72 + 27.32 + 83.89 + 0.23 = 166.16Ham

Total recharge - Total draft = Hence balance 166.16 - 109.3 = 56.86 ham (Ham --- Hector-meter). This watershed is having a balance of 54.65 ham.

Additional Recharge in the factory area:

There is no any major, medium or minor project in the area. Even Nala bandhara of any type is rarely seen. The required water for thermal generation is from Wardha River which is not in our study area.

In addition to above factor, there are two small tanks in this water shed. One is near plant area having nearly two acres and another MAMA Talav near village Majra having nearly 05 acres' area. Thus, totally a spread of water in season comes to 07 acres i.e., 2.8 Hect. Actual in monsoon season the water spread remains to be 1.95 Hect. And that is for nearly 85 days. Hence the recharge through these tanks will be.

Recharge = <u>1.44 X recuperating days' x spread of water in Hect.</u>

1000

= <u>1.44 x 85 x 1.95</u>

1000

= 0.23 Ham.

In addition to the rain water harvesting & recharge structures in the factory premises, may develop the bandhara etc. in an around the watershed. Thus, this watershed after artificial recharge projects, as discussed in following pages, will have sufficient balance and thus turn into undeveloped watershed.

Water Shed No. WRS -I:

Recharge by way of Rainfall Infiltration Method

Area Hectare		Rainfall mts		Rainfall Infiltration	factor	Recharge Ham
518.28	Х	1.048	х	0.08	=	43.45 Ham

The complete area of watershed is taken into consideration.

Recharge by way of Water Table Fluctuation Method

Area Hect		W.T fluctu mts	ation in	Sq. Yield	Re	echarge
518.28	х	3.36	Х	0.015	= 26	5.12 Ham
 Withdrawa 	l in wat	er shed.	.1			
1. Total DV	V/BW					= 127
2. Total DV	V/BW w	ith EM/OE				= 87
3. Domesti	c DW/B	W				= 40
4. Draft by	/ OE/EN	1 @ 0.52Ham/	year			= 45.24Han
5. Draft of	DW/BW	/ for domestic	: purpose	@ 0.1 Ham annua	lly	= 4.0 Ham
6. Hence total draft.						= 49.24 ham
-	Sec. No.	and he mult		Normal March 1920		

7. Additional recharge by DW/BW for irrigation

Total w water sh	100	recharge	In	Return flow factor		Recharge
49.24	. 2017	х		0.25	# 3	12.31 Ham

Hence Total recharge = 43.45 + 12.31 = 55.76 ham. Total recharge - Total withdrawal = Hence balance 55.76 - 49.24 = 6.52 Ham

This watershed is having nearly equal recharge and discharge. Only 8.51ham is the balance in water shed. Hence the different recharge schemes should be formulated and implemented for to increase the water balance in this water shed. (Ham=Hector-meter) this watershed will not have any effect on the water regime of the actual project area.

Water Shed No. WRS -II:

Recharge by way of Rainfall Infiltration Method

Area Hect		Rainfall mts		Rainfall factor	infiltration	Recharge ham
282.49	х	1.048	X	0.08	=	23.68 Ham
The complete a Recharge by wa						1
Total area He	ct	W.T Fluctu mts	ation in	Sq. Yiel	d	Recharge
282.49	Х	3.68	Х	0.015		15.59 Ham
thdrawal in wa 1. Total D	÷.					= 557
2. Domest	tic DW	/BW				= 557
3 Draft of D	W/BW	for domestic	: purpose	@ 0.1 Ha	im annually	= 57 ham
4. Hence to	tal dra	ft.				= 57 hams
Hence To	tal rec	harge				= 22.82
Total	withd	rawal - Total	recharge	= overdi	raft Ham	
	1	7 - 23.6	8 =	33.32 ha	m	

Hence this watershed is over drafted. This watershed is small; and is having one village only. Warora is big township having 557 wells/bore-wells in use.

Hence the withdrawal is huge rather than the recharge. Hence rainwater harvesting methods in this town must be taken up in large quantity. The recharge methods should be made compulsory. This watershed is having its drainage system flowing away from the plant area. Hence this watershed will not affect our plant area.

This watershed is having only one town i.e. Warora is developed at the higher ridges. Actually, the small Nallas originates from this town. Hence the recharge through surface water will not be possible. Only roof water harvesting will be the only solution for additional recharge. The municipality of Warora town must take the artificial recharge schemes compulsorily.

This figure 526.23 ham is the total addition water balance of water sheds no. WRL -1, WRL-2, and WRS-1. The water shed no. WRS-2 is over drafted which come to

33.32 hams. This over drafted draft is minuses from total balance of three water sheds. Thus, the total balance of water in the buffer area comes to 492.91 ham.

WATER BALANCES IN CORE ZONE--- The core zone of the area is actually the plant area which comes to 174.06 Hect. The water recuperation through all means comes to 78.63 ham.

The yield from the bore well is calculated from the aquifer present in bore well. The aquifer is clay mixed with sandy portion. Hence the yield is poor.

DATA FROM BHATADIH WELL FIELD UNDP

The aquifer parameter data as recorded above will be used for drain-able aquifer into underground based on the best hydro geological consideration in the area.

AQUIFER PARAMETERS:

Sr. No.	Aquifer parameter	Unit	Kamthi's as aquifer	Barakar's as aquifer	Basalt as aquifer
1	Transmissivity	M ² /day	105.5	0.80	0.13
2	Conductivity	<u></u>	3.52	0.82	0.01
3	Horizontal	m/day	0.04	0.02	Y and the
4	Specific yield		3.20	0.08	122
5	Anastrophy		1 x 10 - 3	1.5 x 10 -5	3.6 x 10 -3
6	Conductivity vertical		11.26	0.066	Vieto

TABLE - 8 AQUIFERPARAMETER

Aquifer parameter is the most important tool in plant inflow estimation. There is no field constructed by MSMC in the study area. However, with the help of secondary data the aquifer parameters are considered. During UNDP study of Wardha Valley Coalfield two piezometer were constructed, and tested in the study area. The data of these two piezometers are in Kamthi's aquifer and in Barker aquifer, have been considered for the study area and given below in table. As well as the aquifer performance has already been conducted in basaltic terrain of which the parameter is mentioned below

GEOPHYSICAL SURVEY:

Totally seven geophysical probes were taken to know the aquifer thickness of the different formations. The probes are taken with the help of resistivity meter, using schlumbereger configurations. After field data on two cycles the apparent resistivity values were calculated & a graph was plotted on log paper. True resistivity values are to be calculated to know the thicknesses & nature of aquifers up-to certain depth.

Sr. no.	Village	Direction From block	Probable geological Formation	water shed no.	probe done in mts	True Resistivity values ohm/mts
(1)	Charur Khati	NNW	W Weathered& Hard Wi basalt		100	5-8-13
(2)	Naydev	NNW	Clay & S.Stone	WRL-2	100	4-6-7-10
(3)	Chinora	E	Basalt with clay	WRS-1	100	14-15-16
(4)	Wanoja	NW	Clay & W. basalt	WRS-1	100	3-7-13-29
(5)	Kondala	WNW	Hard Basalt	WRL-1	100	13-25-42
(6)	Majra (M)	SE	Sand stone	WRL-2	100	9-13-23-33
(7)	Dahegaon	NE	Hard Massive basalt	WRL-1	100	7-8-10-12

TABLE NO-9 DETAILS OF GEOPHYSICAL SURVEY- 2023





Sr. no.	Village	Direction From block	probable geological Formation	water shed no.	probe in mts	True Resistivity values ohm/mts
(1)	Kondala	WNW	Fractured & Hard basalt	WRL-1	100	8-12-22-28-105
(2)	Dahegaon	NE	Clays; Hard massive basalt	WRL-1	100	7-8-10-12
(3)	Nimsada	WE	Basalt with clay	WRL-2	100	16-20-42-32-85
(4)	Township	SE	S. Stone &Clays	WRL-2	100	7-16-22-19-36
(5)	Plant(A)	W	Clays; Sandy clay 'Lametas	WRL2	100	14-14-19-11-49
(6)	Plant(A.P.)	W	Clays; Fractured Lametas	WRL-2	100	11-15-22-14-14
(7)	Plant(Z.A.	W	Fractured Lametas	WRL-2	100	7-20-18-16-92
(8)	Majra(M)	SE	Loose' Sandy soil & S. Stone	WRL-2	100	9-13-23-33
(9)	Wanoja	NW	Clays'& W .basalt	WRS-1	100	3-7-13-29
(10)	Chinora	E	Fra. Basalt with clays	WRS-1	100	14-17-21-27- 42

TABLE NO-10 DETAILS OF GEOPHYSICAL SURVEY - 2024

GEOPHYSICAL DETAILS

(1) KONDALA

1 Type of Survey

: Resistivity

True Resistivity	Thickness in	i Meters	Geological Formation/Rock Type
values in Ohms/Meters	Individual	Total	
First Layer - 08	1.5	04	Soil, Clay
Second Layer - 12	2 06	10	Soil with clays
Third Layer - 22	10	20	Highly weathered rock
Fourth Layer — 28	20	40	Weathered fractured, basalt formation
Fifty Layer 10	5 60	100	Hard basalt



(2) DHAHEGAON

1 Type of Survey : Resistivity

True Resistivity	Thickness in Meters		Geological Formation/Rock Type
values in Ohms/Meters	Individual	Total	
First Layer - 07	1.5	04	Soil, Clay
Second Layer - 08	06	10	Sandy clays
Third Layer - 10	52	62	Collapsible, sandy clay
Fourth Layer 😐 12	38	100	Collapsible, sandy clay
Fifty Layer			022027



(3)NIMSADA

1 Type of Survey : Resistivity

True Resistivity	Thickness in Meters		Geological Formation/Rock Type
values in Ohms/Meters	Individual	Total	
First Layer - 16	1.5	2.5	Soil
Second Layer - 20	9.5	12	Clays with weathered rock
Third Layer - 42	22	34	Little fractured basalt
Fourth Layer 🕂 32	38	72	Fractured basalt
Fifty Layer 85	28	100	Hard massive basalt



(4) TOWNSHIP

1 Type of Survey : Resistivity

True Resistivity	Thickness in Meters		Geological Formation/Rock Type
values in Ohms/Meters	Individual	Total	
First Layer - 07	1.5	2.0	Soil
Second Layer - 16	09	12	Clays with weathered rock
Third Layer - 22	28	40	Little fractured S. Stone
Fourth Layer — 19	28	68	Clays
Fifty Layer	32	100	Fractured basalt



(5) IN PLANT (ADMIN PARKING)

1 Type of Survey

: Resistivity

True Resistivity	Thickness in Meters		Geological Formation/Rock Type
values in Ohms/Meters	Individual	Total	
First Layer - 14	2.5	2.5	Soil
Second Layer - 14	1.5	04	Clays
Third Layer - 19	06	10	Sandy soil with clays
Fourth Layer — 11	25	35	Sandy soil with clays
Fifty Layer 44	65	100	Highly Fractured basalt



(6) IN PLANT (ASA POND AREA)

1 Type of Survey - 3

Resistivity

2 Spread & its Direction : 100 mts (EAST-WEST)

True Resistivity	Thickness in Meters		Geological Formation/Rock Type
values in Ohms/Meters	Individual	Total	
First Layer - 11	1.5	1.5	Soil
Second Layer - 15	01	2.5	Clays with weathered rock
Third Layer - 22	2.5	05	Little fractured basalt
Fourth Layer 😐 14	25	30	Hard fractured Lametas
Fifty Layer 14	70	100	Hard massive Lametas



(7) IN PLANT (LAST AREA)

1 Type of Survey

Resistivity .

2 Spread & its Direction : 100 mts (NORTH-SOUTH)

True Resistivity	Thickness ir	1 Meters	Geological Formation/Rock Type
values in Ohms/Meters	Individual	Total	
First Layer - 07	1.5	1.5	Soil
Second Layer - 20	03	4.5	Clays with weathered rock
Third Layer - 18	7.5	12	Little fractured rock
Fourth Layer 16	11	23	Hard fractured Lametas
Fifty Layer 92	77	100	Hard massive Lametas



(8) MOTHA MAJRA

1 Type of Survey : Resistivity

2 Spread & its Direction : 100 mts (SOUTH-NORTH)

True Resistivity	Thickness ir	1 Meters	Geological Formation/Rock Type
values in Ohms/Meters	Individual	Total	
First Layer - 09	1.5	03	Soil
Second Layer - 13	29	33	Clays with soil
Third Layer - 23	20	53	Highly fractured S. Stone
Fourth Layer 33	47	100	Hard s. stone
	1		



(9) WANOJA

1 Type of Survey : Resistivity

2 Spread & its Direction : 100 mts

True Resistivity	Thickness ir	n Meters	Geological Formation/Rock Type
values in Ohms/Meters	Individual	Total	
First Layer - 03	1.5	10	Soil
Second Layer - 07	10	20	Loose Soil
Third Layer - 13	10	30	Soil with clays
Fourth Layer 29	30	60	Highly fractured basalt
Fifty Layer 65	40	100	Little fractured basalt



(10) CHINORA

1 Type of Survey	1	Resistivity	

2 Spread & its Direction : 100 mts

True Resistivity	Thickness in	1 Meters	Geological Formation/Rock Type
values in Ohms/Meters	Individual	Total	
First Layer - 14	1.5	1.5	Soil
Second Layer - 17	1.0	2.5	Soil with clays
Third Layer - 21	15.5	18	Weathered Fractured may be loose basalt
Fourth Layer — 27	32	50	Hard basalt little fractured
Fifty Layer 42	50	100	Highly fractured basalt



Hydrology of the study area i.e., a buffer zone including the core zone is controlled by the rivers, Nallas or streamlets, present in that area. Wardha River which is flowing along NW to SE is a perennial river. The drainage of the area is mostly simple. All the drainages in buffer zone flow towards south and southeast direction and ultimately drain in to Wardha River. The prominent Nala near to project area are Shirna& Lendi Nala flowing along east of the block towards south direction.

★ With this nature of drainages, the buffer zone can be divided in to four mini segments or water sheds. The rainwater of a particular area flowing towards one direction, forming a Nala or river and is bounded by an imaginary line of division, called a water shed. (Fig.4).

▲The buffer zone is divided accordingly in to four mini watersheds namely WRL-1, WRL-2, WRS-1 and WRS-2. The word WR stands for Wardha River while the word S is for Shirna and L is for Lendi Nala which ultimately meets with Wardha River. The Thermal Project falls in WRL-2 water shed.

▲ Hydro geologically, the area does not follow the different geological formations. The drainage of WRL-1 and WRL-2 flows from a fault between Gondwanas and Vindhyans. But drainages in WRS-1&2 are flowing across Mangli's, Mottur's; Kamthi's and even Basalt formations. It means that all these formations are deposited or irrupted after forming the basin type structures and hence are nearly at one level.

It is also noticed that the drain water after rainfall does not have a prominent aquifer which may help to recharge. Hence the surface water will not affect the water regime of the study area.

Run Off

In the present study rainfall/runoff model has been developed for the Warora block based on model development under UNDP study. The model is for complete Warora block i.e., Warora belt including the study area. The relationship in the model between rainfall and the resulting runoff is quite complex and is influenced by host of factors relating to catchment and climatic environment.

The present model has been developed for two specific conditions:

- Rainfall runoff in pre-monsoon conditions.
- 2) Rainfall runoff in post monsoon conditions.

TABLE-11 RAINFALL - RUNOFF

Condition	Rain fall (m)	Area M ² x 10 ⁶	Runoff factor	Runoff generation M ³ x 10 ⁶
Pre monsoon	1.048	78.63	0.25	20.60
Post monsoon	1.048	78.63	0.23	18.95

The study area is having thick mantle of black cotton soil and the gradient of the area is very gentle, hence runoff in the area will not affect the water regime of block area.

This data is incorporated from MINE WATER INFLOW ESTIMATION prepared by Maharashtra State Mining Corporation Ltd. for Warora Coal Block.

HYDROLOGICAL STUDIES

The main source of water for Thermal Power Plant is MIDC which has Pump house at Wardha River. The detailed hydrological report of Wardha River at picks up point is already prepared and submitted by the MIDC authority.

The hydrological studies already submitted involves (i) The importance of studies (ii) Factors involved in studies (iii) Probability and statistics in Hydrological computation and (iv) Objectives of statistics in Hydrology.

Importance of the Studies:

Hydrological Studies play a vital role in the design and formulation of a Water Resources in around the Plant.

The ultimate outcomes expected from the hydrological studies are -

- Availability of the inflow both in quantum as well as in the periodicity.
- Maximum floods that may have to be faced with various Return periodicities.

The first outcome helps in identifying the availability of the River flow in various months which in turn helps in properly planning the plant operations.

The second one helps in safeguarding the structures / installations from over running by the flood waters, submergence and other related damages, by locating them at suitable elevations as well as making provisions for safe evacuation from the floods.

Thus, the Hydrological Studies involve: ---

Determination of the inflows in the River at a particular location both in terms of the maximum and minimum and the variations over the period of a year for various levels of dependability's in order to assess the viability of locating the plant proposed. The levels of dependability's that cater to the various needs such as Irrigation, Domestic Water Supply, Navigation, Hydro power generation and other usages such as replenishment supply for thermal power plants vary from 50% to 90%. The 75% dependability is enough to initiate an irrigation plant whereas the highest of 90% dependability is the requirement indeed for investing in a hydro- electric plant. For this thermal power project also, a dependability of 90% is considered.

Working out the probable flood discharges in the river with their water levels for various return periods of their occurrence i.e., 50 years, 100 years, 200 years, 1000 years or the Plant Maximum Flood anytime in the life of the plant, depending upon the type of structure being designed such as weirs, barrages, storage behind the structure that has the potential to create the human and economic disasters in case of failure of the structure.

Probability and Statistics in Hydrological computation: ---

Most of the hydrological processes such as precipitation, run-off are rather random processes. Statistics and Probability are therefore essentially required to analyze and interpret the observed data of such processes.

Planning and designing of water resources projects needs information on different hydrological events that are not governed by the known physical and chemical laws, but are governed by laws of chance. For example, stream flow in any given river varies from day to day and from year to year. The fact is that no one can predict the discharge of Wardha at Ghughus or any given location on any particular day. Since the exact discharge cannot be predicted, the hydrologist has to be content with the probability with which a certain discharge value, say x cum sec, is likely to exceed, so as to determine the risk involved in designing the structure for that discharge. This can only be determined through the statistical and probabilistic analysis of past observed hydrological data. Statistics deals with the computation of sampled data, while Probability deals with the measure of chance or likely hood based on the sampled data. The fact is that many hydrological phenomena are highly erratic, complex and random in nature and hence they can be interpreted only in a probabilistic sense. One of the important problems in hydrology deals with interpreting a past record of hydrologic events in terms of future probabilities of occurrence. This problem arises in the estimates of frequencies of floods, droughts, storages, rainfall etc. The procedure involved is known as frequency analysis.

Data required for hydrological analyses can be classified into two kinds: experimental data and historical data. The experimental data are measured through experiments and usually can be obtained repeatedly by experiments. On the other hand, historical data are collected from natural phenomena that can be observed only once and then will not occur again. Most hydrological data are historical data that were observed from natural hydrological phenomena, e.g., stream flow data of a river.

Thus, statistical analysis involves two basic sets of problems; one descriptive and the other inferential. The former is a straightforward application of statistical methods requiring few decisions and representing little risk. The latter, on the other hand, entails decisions bearing some risks and requires an understanding of the methods employed and the dangers involved in predicting and estimating.

Objectives of Statistics in Hydrology:

The objectives of statistics in hydrology may be listed as follows:

- Interpretation of observations;
- 2. Search for hydrological probabilistic regularities;
- 3. Extraction of maximum information from hydrological data; and
- Presentation of hydrological information in condensed form as graphs, tables of numbers and mathematical equations, basically for decision-making in water resources planning.

Thus, the basic objective of applying statistics in hydrology is to derive information from the past observed hydrologic phenomena and then to make inferences about what is expected in the future.

DETAILS OF WASTEWATER TREATMENT

Waste water will be generated from cooling towers in the Power plant & domestic waste water from plant.

Total waste water generation from the plant will be 259 M³/Hr. Out of the total waste water, 75 M³/Hr. will be used in ash handling and disposal system, 16 M³/Hr. in plantation activities, 24M³/Hr. in dust suppression, 45 M³/Hr. in cooling system and remaining 126 M³/Hr. will be routed to guard pond, out of which, 100M³/Hr. will be recycled into process. The domestic/sanitary waste water from plant will be treated in STP and utilized in greenbelt development. The sludge generated in the raw water treatment plant will be used as manure in the greenbelt development.

Waste water generated from the plant is treated in Effluent Treatment Plant (ETP) to neutralize and reduce the suspended solids, oil & grease and prescribed effluent parameters to limits prescribed by CPCB& MPCB. The guard pond has been provided with proper lining to prevent seepage and avoid contamination of ground water.

An effluent management scheme implemented to optimize various water systems so as to reduce intake water requirement as well as effluent discharge. The scheme involve collection, treatment and re circulation/disposal of various effluents.

RAIN WATER HARVESTING:

THE PRINCIPLE OF RAIN WATER HARVESTING:

Rain water falling on the ground and absorbed by the earth consisting of the loose soil (permeable) and weathered rocks beneath the earth's surface, just as sponge, stores water is called aquifer. All this can happen only if the rain water is allowed to touch the loose earth called aquifer. Similarly, deficit of ground water, in that aquifer has to be studied; otherwise, potential in the rich ground water potential recharging will cause flooding and water logging of shallow overburden.

In the last three decades an exponential growth in number of ground water structures has been observed. This has led to enormous withdrawal of groundwater for various uses of agricultural, industrial and other domestic needs. This resource has become an important source of drinking water and food security for teeming millions of the state.

RECHARGING UNDERGROUND AQUIFER:

When the impervious layer is at shallow depth i.e., 38.00 mts to50.00 mts, the top aquifer is subsurface aquifer which normally gets recharged during the rainy season without any effort. Hence water in the open well (dug well) is not generally ground water in true sense.

Water in the bore well or tube well generally 65.00 mts deep is actually the ground water which contains minerals in it, which is of utmost importance from ecological point of view.

Due to urbanization, population growth, industrial growth & irrigation millions of bore wells/tube wells are drilled & ground water is continuously being pumped out, leaving thereby a permanent decline in underground water potential. Therefore, rain water harvesting in real sense is that branch of engineering which studies and finds the suitable solutions in the vicinity of targeted area, for recharging to carry roof top rain water up-to ground water.

TECHNIQUES OF RAIN WATER HARVESTING:

There are two main techniques of rain water harvesting.

- A Storage of rainwater on surface for future use.
- B Recharge to ground water.

The storage of rain water on surface is a traditional techniques and structures used were underground tanks, ponds, check dams, weirs etc. Recharge to ground water is a new concept of rain water harvesting and the structures generally used are: -

Pits: - Recharge pits are constructed for recharging the shallow aquifer. These are constructed 1 to 2 m, wide and to 3 m. deep which are back filled with boulders, gravels, coarse sand, which forms a filter screen

Trenches: - These are constructed when the permeable strata are available at shallow depth. Trench may be 0.5 to 1 m. wide, 1 to 1.5m deep and 10 to 20 m long depending upon availability of water. These are back filled with filter materials.

Dug wells: - Existing dug wells may be utilized as recharge structure and water should pass through filter media before putting into dug well. Recharge wells/bore: -Recharge wells of 100 to 300 mm diameter are generally constructed for recharging the deeper aquifers and water is passed through filter media to avoid choking of recharge wells.

Recharge Shafts: - For recharging the shallow aquifer which is located below clayey surface, recharge shafts of 0.5 to 3 m. diameter and 10 to 15 m. deep are constructed and back filled with boulders, gravels & coarse sand.

Lateral shafts with bore wells: - For recharging the upper as well as deeper aquifers lateral shafts of 1.5 to 2 m wide & 10 to 30 m long depending upon availability of water with one or two bore wells is constructed. The lateral shaft is back filled with boulders, gravels & coarse sand.

Spreading techniques: - When permeable strata start from top then this technique is used. Spread the water in streams/Nallas by making check dams, Nala bund's, cement plugs, gabion structures or a percolation pond may be constructed.

DIVERSION OF RUN-OFF INTO EXISTING SURFACE WATER BODIES:

Construction activity in and around the city is resulting in the drying up of water bodies and reclamation of these tanks for conversion into plots for houses. Free flow of storm runoff into these tanks and water bodies must be ensured. The storm runoff may be diverted into the nearest tanks or depressions, which will create additional recharge.

Urbanization effects on Groundwater Hydrology:

- Increase in water demand
- More dependence on ground water use.
- Over exploitation of ground water
- Increase in run-off, decline in well yields and fall in water levels
- Reduction in open soil surface area
- Reduction in infiltration and deterioration in water quality Some Methods of artificial recharge in urban areas are:
- Water spreading.
- Recharge through pits, trenches, wells, shafts.
- Rooftop collection of rainwater.
- Induced recharge from surface water bodies.

Computation of artificial recharge from Roof top rainwater collection:

Factors taken for computation:

- Roof top area in sq.mt. for individual house and for multi-storied building.
- Average annual monsoon rainfall as per data in mm.

Effective annual rainfall contributing to recharge 90% of Average annual rainfall.

Benefits of Artificial Recharge in Urban Areas:

- Improvement in infiltration and reduction in run-off.
- Improvement in groundwater levels and yields.

Reduces strain on Special Village Panchayats/ Municipal / Municipal Corporation water supply.

- Improvement in groundwater quality.
- Methods and techniques for ground water recharge.

Roof Top Rain Water / run off harvesting can be conducted through:

- Recharge Pit
- Recharge Trench
- Tube-well/Bore wells
- Recharge Well

Rain Water Harvesting through:

- Contour Bund
- Percolation tank
- Check Dam/ Cement Plug/ Nala Bund
- Recharge shaft
- Dug well Recharge

Rainwater harvesting from the factory area will have to be consider for recharge factor. They are roof-water harvesting and surface water harvesting.

1 ROOF WATER HARVESTING

The ground water system is maintained and replenished to its maximum extent during the rainy season. Rain water harvesting has assumed significance as it artificially augments the recharging to the depleted aquifers and facilitates them to restore over period of time. The surplus runoff generated during monsoon is to be conserved and recharge to augment ground water resources.

Out of the various techniques of rain water harvesting, Roof top rain water harvesting through direct injection into tube well has although good intake capacity, yet it is found to be the most suitable under the prevailing hydro geological condition. The other surface water recharging schemes are not technically feasible inside the building area. The selection of suitable location of recharging two tube wells no.01 and 02 has been considered to achieve desired results. Roof top rain water harvesting is the direct collection of rain water from roof top which is to be channelized through gutters and then transport the water from the roof, through down pipes, to the existing two tube well. In addition, there will be a first flush system to divert the dirty water which contains roof debris collected on the roof during non-rainy periods and a filter unit to remove debris and contaminants before water enters the tube well. The roof water is directly connected to ground water systems; precautionary measures need to be taken to ensure that recharging water is free of contaminant before get diverted for recharging into the subsurface. The various components to be used for installation of Roof top rain water harvesting system are as described below;

Gutters: Gutters are channels fixed to the edges of roof all around to collect and transport the rainwater from the roof. They can be in semi-circular or rectangular in shapes.

Downpipe: Down pipe is the pipe, which carries the rainwater from the gutters to the tub well. Down pipe is joined with the gutters at one end, and the other end is connected to the filter unit. Each PVC pipes of 100 mm to 150 mm (4 inch to 6 inch) diameter as down-pipe is to be used for every 50sq.m. Of roof area.

First Flush Pipe: A first flush system is incorporated to dispose of the water from 'first rain' so that debris, dirt and dust collected on the roofs during non-rainy periods is washed out through first flush rain water pipe. After the first rain is washed out through first flush pipe, the valve is closed to allow the water to enter the down pipe and reach the filter unit.

Filter Unit: The filter unit is a container or chamber filled with filter media such as coarse sand, gravels, and pebbles separated by fine mash wire to remove the debris and dirt from water that enters the tank. The container is provided with an outlet pipe to allow the passage of water into bore well. The filter unit is placed between the down pipes and bore well. The horizontal slope of inlet and out let pipe at the filter is 1:1.

Roof water recharge is the direct method to recharge the aquifer. Actually 90% of rainfall could be recharged from roof.

Sr. No.	Name	Area
1	Security building	218.05 sq. mts
2	Coal sourcing building	236.50 sq. mts
3	Admin. building	1122.50 sq. mts
4	Fire station	503.96 sq. mts
5	Tech. building	544.81 sq. mts
6	F.O.P.H. building	664.50 sq. mts
7	C.H.P. control building	638.00 sq. mts
8	B.T.G.	15056.2 sq. mts
	Total	18984.52 sq. mts

There are 9 structures from which rainwater can be collected and reused. They are:

The first 9 installations may be clubbed and should be drained by suitable pipes in to the storage facility so that roof water of these installations will be used. The roof water may be filtered properly with the help of filtration media before using.

2 SURFACEWATER HARVESTING

The surface water recharge tabulated with roof water as per the area mentioned below. The surface water recharges through a big pit were the run off goes from the plant premises.

The surface water is being drained through piped drainage systematically; ultimately it goes to a natural drain or Nala. But this surface water should be checked by constructing bandharas across the Nala bed. It should be constructed with the guidance of irrigation engineer. There is no possibility of actual recuperation due to clay formation. Hence the flowing Nala which have a bandhara like structure should be deepened into its bed and widened to a considerable length so that there may be a lateral spreading. This structure should be widened up to its maximum width. This may help to increase the average static water levels of the watershed in which the project area falls. These bandharas will also increase the storage of Nala basin, thus increasing the irrigation to the surrounding area and thus will save the crops in draught period. Three locations of such bandharas are marked on the enclosed plate no-3.

The drain water which will flow into the existing surface body and which will have a Bandhara will increase the static water levels of that watershed where the project is standing. Hence this watershed will be treated as developed. This plant area falls under the water shed no. WRL -2.

A	ESTIMATION OF	ANNUAL RUN	OFF POTEN	TIAL		
Sl. No.	Land Use / Type of Area	Area (Sq. meters)	Average Annual Rainfall (millimeter)	Average Annual Rainfall (meter)	Runoff Coefficient	Total Annual Runoff Potential Created (cu. m/year)
1	Roof Top Area	20630.37	1048	1.048	0.85	18377.53
2	Paved Area	1019705.63	1048	1.048	0.65	694623.47
3	Open Area	Nil	1048	1.048	Nil	Nil
4	Green Belt Area	700304	1048	1.048	0.10	73391.85
	Total	1740640				786392.85
в	ESTIMATION OF	PEAK RAINF.	ALL RUNOFF			
S. No.	Land Use / Type of Area	Area (Sq. meters)	Runoff Coefficient	Intensit y of Rainfall (m/hr.)	Runoff for hourly peak intensity (cu. m/hour)	Runoff for 15 minutes peak intensity (cu. m)
1	Roof Top Area	20630.37	0.85	0.035	613.75	153.43
2	Paved Area	1019705.63	0.65	0.035	23198.30	5799.57
3	Open Area	Nil	Nil	Nil	NIL	Nil
4	Green Belt Area	700304	0.101	0.035	2451.06	612.76
	Total	1740640			26263.11	6565.76

Thus 78.63 Ham is the artificial recharge directly through rain water in the plant premises.

Chapter 5: Finding and Recommendation

i. Out of four watersheds two watersheds were underdeveloped. Only WRL -I have water balance and the watershed WRL -II will have a water balance after the recharge schemes are developed as mentioned earlier.

ii. WRL -II watershed is developed, where the plant is standing, as the roof water and surface water harvesting plant as mentioned are already undertaken by the plant.

iii. The remaining two watersheds (WRS-I & II) in general are not affecting the water regime of the plant area as the complete drainage systems of these watersheds runs away from our project watershed. These watersheds should be developed as a social obligation so that there will not be a problem on water regime. Hence there will not be an adverse impact on the water regime of the plant area. iv.

ANNEXURE-I

WELL, INVENTARY DATA (2024)

WRL-1

Sr.	Name of	Total no. of	No. of wells	S	WL	Fluct.	
no.	Village	wells & b/w	OE & EM	winter	summer		
(1)	Charur Kh.	64	51	7.62	11.01	3.39	
(2)	Dahegaon	40	35	7.62	10.00	2.38	
(3	Kondala	46	44	4.57	8.01	3.44	
(4)	Dongargaon	60	55	7.62	12.00	4.38	
		210	185	6.86	10.25	3.39	

WRL-2

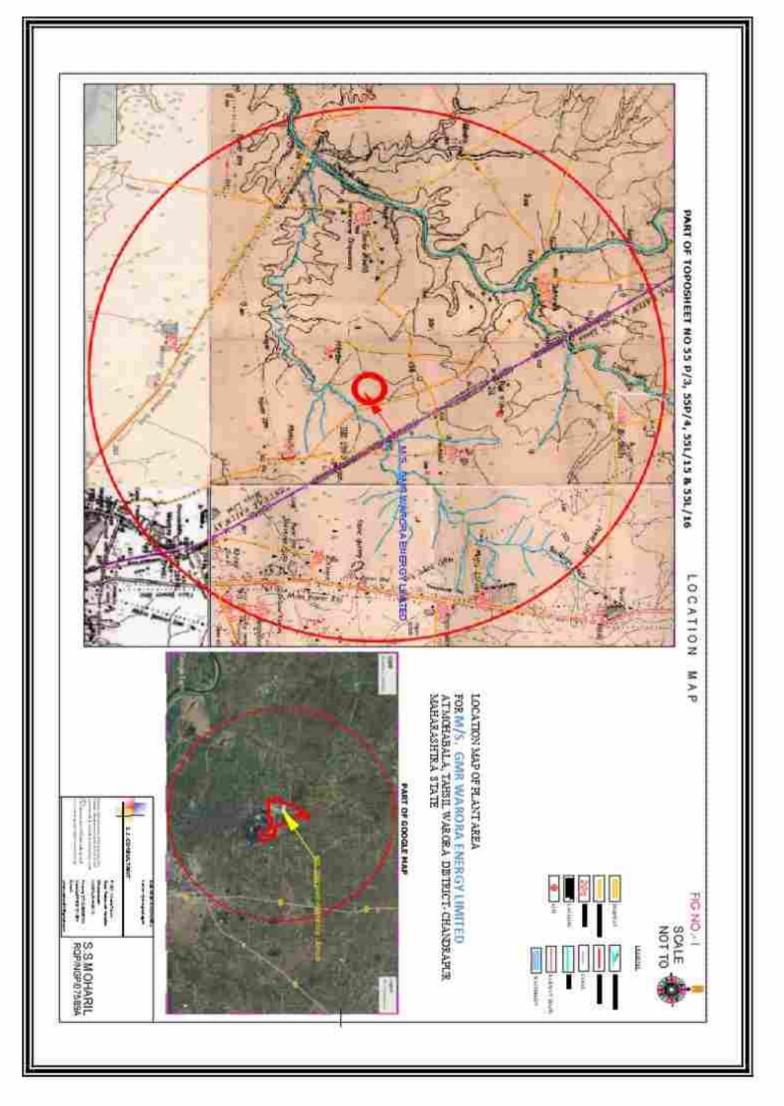
Sr.	Name of	No. of	No. of Total no. of well		SWL		
No.	village	Wells & b/w	with o/e & e/m	Winter	Summer		
1	Naydev	34	30	9.14	11.46	2.32	
2	Mohabala	29	24	4.57	8.84	4.27	
3	Nimsada	55	48	1.21	9.46	8.25	
4	Majra (M)	62	58	3.65	10.84	7.19	
5	Majra (C)	52	45	4.57	8.92	4.35	
		232	205	4.62	9.90	5.28	

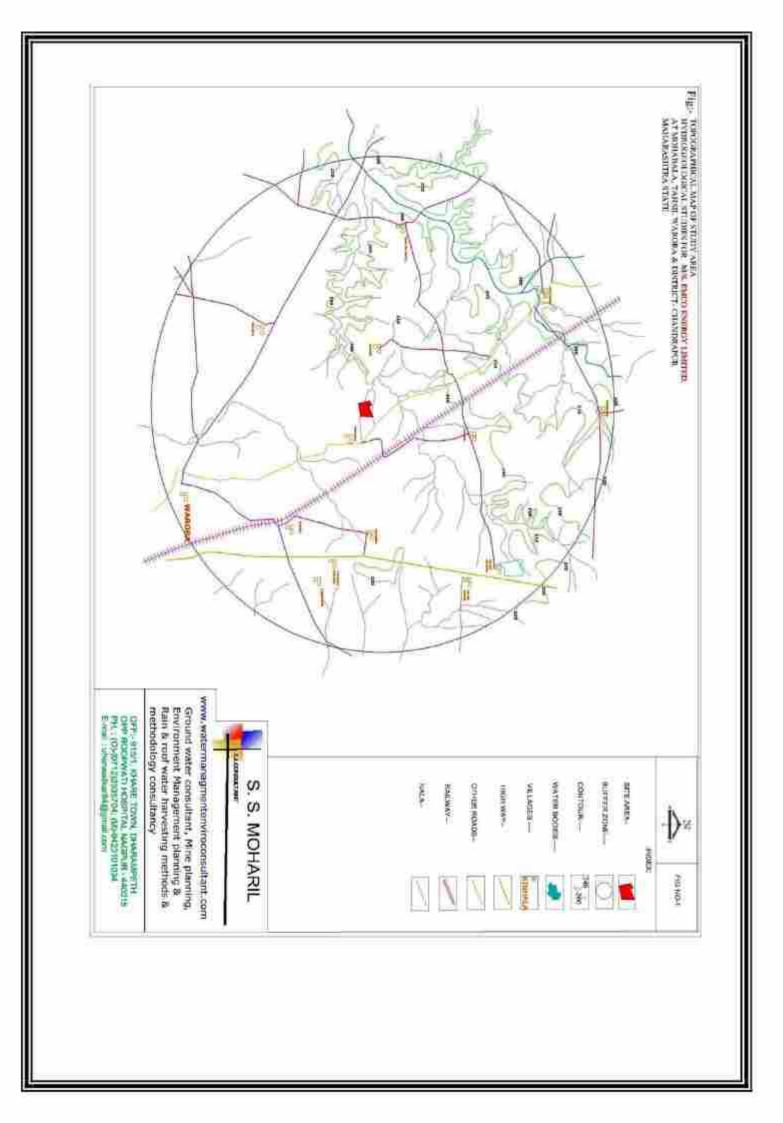
WRS-1

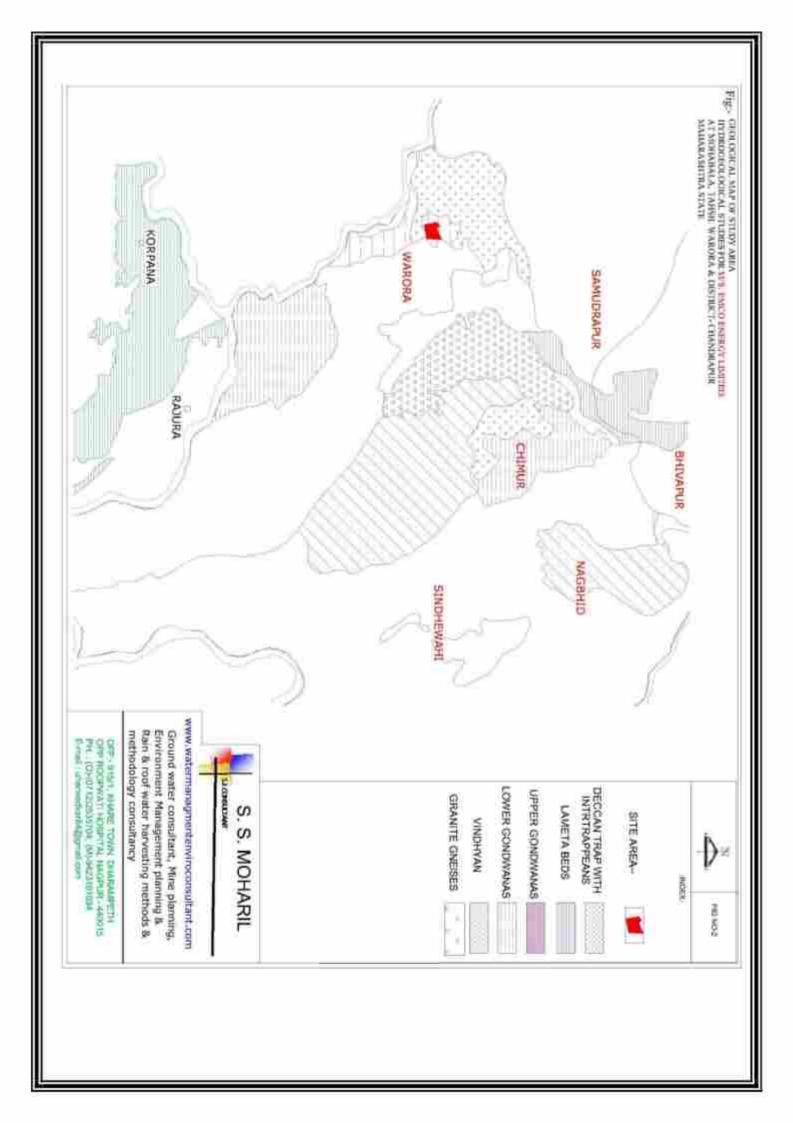
Sr.	Name of	No. of	Total no. of well	S	SWL winter Summer	
No.	village	Wells & b/w	with o/e & e/m	winter		
1	Wanoja	30	22	9.14	11.30	2.16
2	Anandwan	29	18	6.09	9.75	3.66
3	Khanji	29	20	8.84	12.80	3.96
4	Chinora	39	27	6.09	9.75	3.66
1		127	87	7.54	10.90	3.36

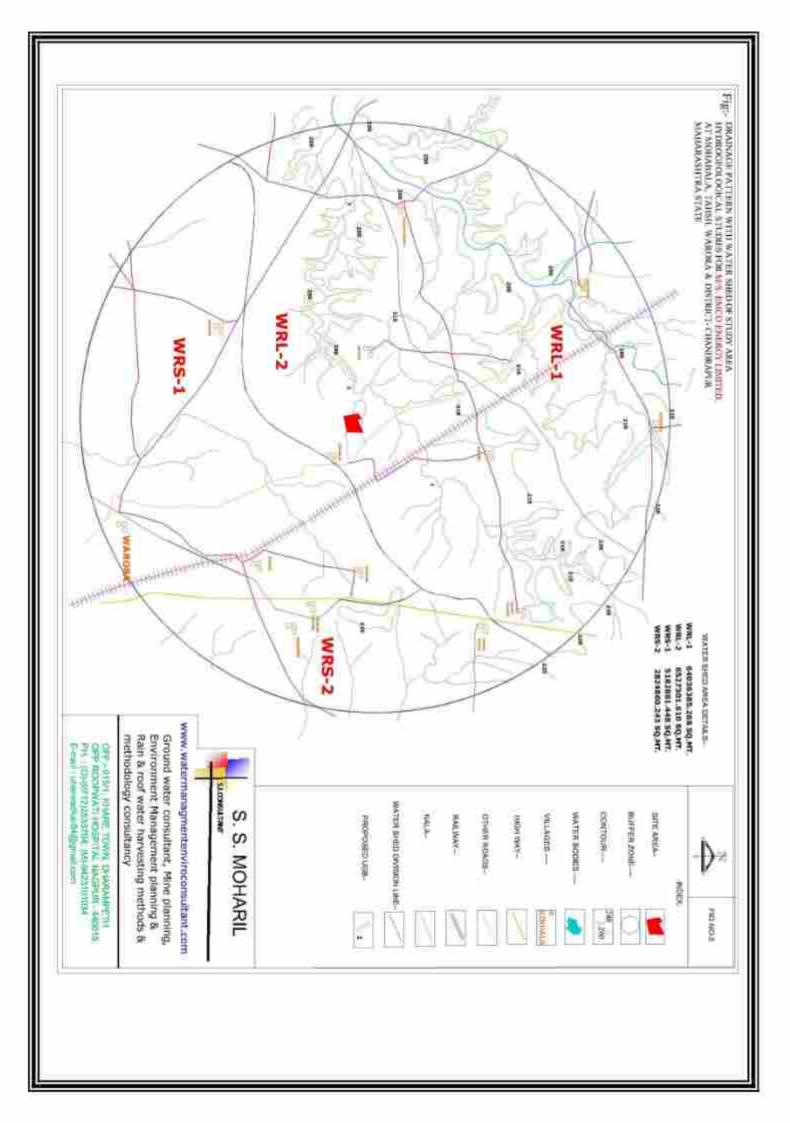
WRS-2

Sr. No.	name of village	No. of Wells & b/w	Total no. of well with o/e & e/m	SV	Fluct.	
				Winter	Summe r	
1	Warora	557	546	9.82	13.5	3.68
		557	546	9.82	13.5	3.68









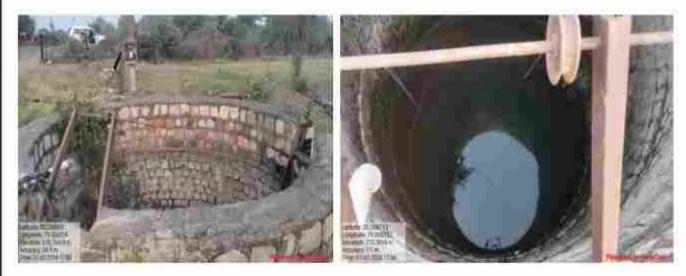


PLANT MAIN GATE

ENTERY ROAD IN PLANT



PLANT MAIN ENTRANCE & EXIT ROAD TO PLANT MAIN GATE



DUGWELLS



BOREWELLS



HAND PUMP

LAKE



GEOPHYSICAL SURVEY 2024





RIVER (DAHEGAON)

NALA (DAHEGAON)



R.O. WATER PLANT

ANNEXURE -I

RAINFALL FOR THE PAST 30 YEAR (1994-2023) WARORA STATION

YEAR	ANNUAL		
	RAINFALL (MM)		
1994	1130.0		
1995	1100.0		
1996	1100.5		
1997	1110.5		
1998	1140.0		
1999	1160.0		
2000	1120.0		
2001	1160.0		
2002	1135.0		
2003	1210.0		
2004	1140.0		
2005	1130.0		
2006	1140.0		
2007	1195.0		
2008	1090.0		
2009	1095.0		
2010	1060.0		
2011	1040.0		
2012	1070.0		
2013	910.0		
2014	1045.0		
2015	1060.0		
2016	1040.2		
2017	1030.0		
2018	1010.0		
2019	992.0		
2020	1010.0		
2021	1030.0		
2022	1010.0		
2023	1010.0		

TOTAL AVERAGE ----- 1048.77

Six Monthly CSR Progress Report October 2023 to March 2024



Corporate Social Responsibility GMR Varalakshmi Foundation and GMR Warora Energy Ltd., Warora



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HIGHLIGHTS OF GWEL-CSR ACTIVITIES (OCT. 2023- MARCH 2024)

Education

- Smart Classes using Android TVs, Digital Interactive Board and Computers conducted in 10 ZP Schools benefitted 2360 students.
- Conducted After School Learning Centers (ASLCs), E-Centers and Navodaya classes covering 722 students.
- Coding classes conducted with 54 Students of Class VII & IX from two villages.
- Learning Navigator Tool (GOORU) implemented with 354 students.
- Capacitated 30 volunteers & ZP schoolteachers on computer based teaching.
- School Bus services benefitted 108 students of Class VIII X.
- Pratibha Library benefitted 70 youth. Fifteen students selected in Govt. Jobs this year.

Health, Hygiene and Sanitation

- Health Clinic in 10 villages provided free treatment and medicines to over 21,100 people.
- Mobile Medicare Unit (MMU) provided free treatment to over 24,600 oid aged people.
- Nutrition center benefitted 69 pregnant and lactating mothers from six villages.
- I7 RO Water Plants are functioning well & providing potable drinking water to nearly 4500 HHs.
- Fogging operation continued in 8 villages to keep villagers safe from vector borne diseases.
- 319 health awareness programs organized in villages that benefitted over 5,100 people.
- 34 Special Health camp conducted across 18 village that benefitted over 3400 people.

Empowerment & Livelihoods

- Total 156 students successfully completed the vocational training in self-employment courses.
- 1337 people supported for livelihood activities out of this 875 people are earning additional average Rs. 7,000/- annually.
- 350 farmers initiated wheat cultivation using innovative approach of System of Wheat Intensification(SWI)
- 87 women grown vegetable and earned more than Rs. 21 lakhs just in three months.
- 259 people donated blood during the year from two blood donation camps at GWEL.
- 710 employees participated in 101 community development programs and contributed 1372 voluntary hours.

Other:

- GWEL receive ISO 26000; 2010 certification for Corporate Social Responsibility.
- Symblosis International (Deemed) University Nagpur conducted Impact Evaluation of CSR activities of GWEL.

DETAILS OF CSR ACTIVITIES

BACKGROUND OF THE PROJECT

GMR Warora Energy limited (GWEL), formerly known as EMCO Energy Limited is a subsidiary of GMR Energy Limited (GEL). GWEL has established a 600 MW Thermal Power Plant at Warora in Chandrapur district of Maharashtra. The GWEL Power Plant has two units each of 300 MWs. Unit 1 of the project was commissioned in March 2013 and Unit 2 was commissioned in September 2013. The project is ideally located in terms of the connectivity by rail, road and air. It is also close to critical infrastructure such as housing, education, and medical facilities.

GMR Varalakshmi Foundation (GMRVF), which is the Corporate Social Responsibility (CSR) arm of the GMR Group, was tasked by GWEL to fulfil the corporate social commitments. GMRVF launched Education, Health, Hygiene and Sanitation, Empowerment and Livelihoods and Community Development programs to enhance the quality of life of people dwelling in and around GWEL Plant. The GMRVF team in Warora constitutes of five staff members headed by a Senior Program Leader.

As per the Companies Act requirement, a CSR committee is in place at GWEL and CSR Policy of the Company has been formulated and adopted. CSR Committee meetings were held during the reporting period and the Committee approved the annual CSR plan of GWEL as per mandatory CSR funds for this financial year. The following CSR activities undertaken as per CSR Policy are illustrated below:

GWEL CSR-PROGRAM COVERAGE AREA

GWEL initiated its CSR activities since April 2010. The CSR operation extended to 10 villages around the power plant covering an approximate population of 16,000. These villages are Naidev, Nimsada, Dahegaon, Dongargaon, Chinora, Marda, Charur Khati, Majra Khurd, Wanoja and Majra Rai. Apart from this, GWEL also covers more than 22 villages that fall under the transmission line reaching out to more than 27,000 people through Mobile Medicare Units (MMU).



DETAILED OF PROGRAM ACTIVITIES

EDUCATION

Digital Education is the focus of GMRVF and GWEL CSR activities in Warora. To enhance the quality of education below interventions undertaken during the year:

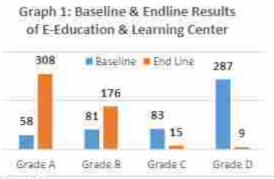
A. Support to Govt. Schools

A.1 Digital Education and Smart Classes at Villages: GMRVF and GWEL is conducting various digital education activities in villages in order to improve education quality in project affected villages. To promote quality education, various educational materials provided to Zilla Parishad (ZP) Schools such as digital TLM, computers, infrastructure development and furniture etc. Apart from this, GMRVF has conducted two health camps in each School to track the health status of students and developed school ambience by conducting white washing, providing necessary support to maintain gardening, sanitation facility for students. The E-Module of NEXT Education is installed in 4 ZP schools. NEXT Education is an E-Learning Service Provider specialized in designing e- modules on various topics of

GMR Varalakshmi Foundation, Warora Page 4 18

school curriculum prescribed by state board. GWEL CSR also provided Android TV at ten schools, this is enabling to conduct computer-based classes at ZP schools. Total 2360 students covered from these initiatives.

A.2 Computer Education at ZP School: GMRVF is operating eight computer education classes at 8 ZP school and providing computer education to students from STD I -VII. These classes are benefitting 509 students. The results of these classes show 308 students received A Grade marks, 176 students received B Grade marks and only 24 students achieve C &D Grade marks. The comparision of results of



students in 23-24 with baseline to end line is presented in Graph 1.

A.3 Learning Navigator Classes – GOORU APP: GMRVF has enrolled 354 students of STD I- VII from 6 villages in learning Navigator program through Gooru App of Gooru India Foundation (GIF). All students enrolled in the system and boarded for different classrooms. 97% students are achieving 100% results in weekly test conducted through offline test.

A.4 Skill Education for Students – Coding Classes: GMRVF initiated coding classes with 54 students of STD VIII and IX to promote future skills in the schools. These classes organized with the technical support from Igebra AI, Hyderabad. Students learned Level 0 and Level 1 coding program and shown confidence that In future they can make future career in new skills.

B. Pre-school Education

B.1 Infrastructure Support to Anganwadi: GMRVF is working with 18 Govt. Anganwadies to promote quality education and prepare 372 children for primary schools. GMRVF supported infrastructure and Teaching, learning Material (TLM) in Anganwadi centers to increase attendance and learning level of children. All Anganwadies are using TLM and regular classes are being conducted.

B.2 Capacity Building of Anganwadi Workers: GMRVF with the support from ICDS Department and Samriddhi Ladies Club (SLC) is conducting series of training to enhance capacity of Anganwadi workers in different aspects of service delivery. The effort of Foundation is to make each Anganwadi as Model and ISO Anganwadi in all its working villages. 36 Anganwadi workers were trained during the year.

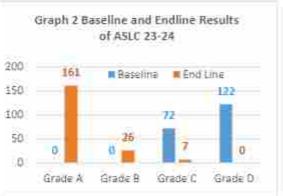
C. Direct support to Students:

C.1 After School Learning Center (ASLC): GMRVF is operating six ASLCs in six villages to enhance education quality among slow learner students of STD I-VII. Total 194 slow learner students identified from six villages this year and provided tuition using Joyful teaching Learning methods. The fortnightly test conducted in each ASLC to gauge the learning level of students. Total sixteen tests conducted during the year. The result of baseline and all fortnightly test evaluated in terms of grades and



presented in Graph 2. The Grade A assigned for highest and Grade D assigned for lowest performance. The first and last test result shows:

- The very first test at the time of start of session shows 0 students in Grade A & B and 72 students in Grade C and 122 students in Grade D marks.
- The last fortnightly test shows that 161 students scored A Grade; 26 students received B Grade and 7 students achieved C Grade result.



C.2 Navodaya Coaching Classes: GMRVF is running three Navodaya coaching in three villages with selected 20 students in 23-24 session while in 24-25 session 38 students selected from three villages and provided coaching for preparation of Navodaya Entrance Test. Special coaching arranged by GWEL employee under their social responsibility and each student track for their progress through weekly test. The last test results shows:

 Out of 27 students 85% students achieved A Grade and rest 15% students achieved B Grade marks. No students in Navodaya scored C&D marks.

C.3 Summer Classes: GMRVF conducted Summer Camp during the summer vacation in villages to engage students in education. 234 students from STD I – VII enrolled and learned various activities such as Yoga, Drawings, Origami and various fun activities, English speaking etc. Apart from this, special classes on MS Office organized for 233 students of Std VI to X.

C.4 Capacity Building of Vidya Volunteers: 24 fortnightly trainings with the education volunteers including ASLCs, E-Center and Navodaya was organised fortnightly during the year. Volunteers were oriented on conducting fortnightly assessments of student's learning. Total 16 Vidya volunteers attended the fortnightly trainings regularly and conducted online & offline classes as per plans.

D. Awareness programs and Day Celebrations:

D.1 Celebration of Important Days: To imbibe the value and significance of important days such as International Yoga Day, Children Day, Republic Day, Entrance Day were celebrated in schools and Anganwadi centers of 10 villages.

Around 2300 children & villagers benefitted from the programs.

D.2 Adolescent Awareness Program: An adolescent awareness program conducted in villages during the year. Various topics covered in awareness sessions which was useful in development of girls folk in various stages of life. More than 400 girls benefitted from the program.



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D.3 Health Camp in ZP Schools: Health camp organized at eight ZP Schools twice during the academic session this year. Qualified doctor visited the school and examined the students and provided free medicine as well as recommended for further treatment for malnourished students. 509 students benefitted from the camps.

D.4 Celebration of National Energy Conservation Program: Two awareness sessions conducted offline at two ZP Schools on Electrical Safety, conservation of energy, importance of saving energy. Total 190 students participated and learned the energy conservation tips.

D.5 Celebration of Road Safety Week: Road Safety awareness program conducted at Pratibha Library Yensa and Majra Rai at high school covering road and various safety related topics. Total 295 students participated in the program and learned the causes and effects of safety.

D.6 Safety Awareness Program: Two safety awareness program conducted by EHS department of GWEL at Pratibha Center and Vocational Training Center (VTC), Warora. The topics such as safety while using electrical appliances, fire safety and road safety issues were discussed during the occasion. Total 94 students participated in the program and benefitted.

E. Any other location specific initiatives

E.1 Pratibha Library: The Pratibha library established in Lokmanya Vidyalaya, Warora town with an objective of providing career-counselling services to aspirants for employment opportunities or higher education. The library provides a repository of books and offers services like conducting special classes for different subjects, group discussions on current topics, monthly test, mock interview and counselling sessions. More than 700 youths are registered in the library.

- This year more than 70 youths attended online and offline classes.
 - 15 aspirants successful this year in competitive exam of CRPF, CISF, Mumbai Police and other Govt Jobs.
 - 55 students completed online courses (Communication Skills and Fundamental Digital Marketing) under various online platforms.

E.2 Transportation Facility for Students: GMRVF is providing school bus service for students of STD. VIII to X from Dongargaon and Dahegaon villages. School bus facility is enabling students of these villages to continue education after class 7th as there is no education facility in village after class 7th.

This year, total 108 students availed the facility and attended schools regularly.

E.3 Special Motivation Classes for 10th Students: Special motivational class conducted for 67 students of class 10th in online mode. It was conducted by an expert with an objective to remove the fear of exams and also provided various tips and guidance to students on how to prepare for exams and how to attempt question papers so as to achieve maximum score in board exam.



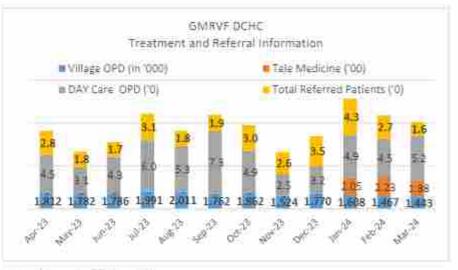
HEALTH HYGIENE SANITATION

A. Protective Health Care

A.1 Health Clinics: GMRVF is running ten Primary Health Clinics in ten project affected villages with the technical support from Acharya Vinoba Bhave Rural Hospital and providing basic health check-up

and free medicines. Qualified doctors visited the clinics twice in a week and conducted clinic operation.

- This year, 21,143 people received free treatment and free medicines from 10 villages.
- Telemedicine Started at Marda village from Jan 24



and treated 616 patients by the end of financial year.

- Two village OPD stopped in villages (Majra Rai and Majra Khurd) and running at GMRVF Day Care Health Center from 25 August 2023 and treated 465 Patients including other patients.
- Referred 308 patients to higher hospital for critical allments.
- Total 233 patients recovered from critical aliments.

A.2 GMR Varalakshmi Foundation Day Care Health Center: GWEL and GMRVF has collaborated with Acharya Vinoba Bhave Rural Hospital (AVBRH) to provide quality health services in all CSR villages and also to community living at other nearby villages. A Day Care Health Center has been established in Greenwood Township and providing 24X7 medical services.

Total S58 OPD conducted this year at the Day Care Health Center.

A.3 Mobile Medicare Unit (MMU): The MMU at Warora is offering treatment facility and counselling services to the elders above 50 years of age in 22 surrounding villages of GWEL. MMU serve each village once in a week and treat free of cost to old aged and providing services at their door step. MMU is equipped with all basic healthcare and a team of Doctor, Nurse, Pharmacist and Supervisor who take care of patients.

 Total 24,668 Regular, Chronic and Seasonal old aged patients aged 50 and above received treatment and free medicine during this year.



A.4 Nutrition Centers: Realizing the importance of proper nutrition during pregnancy and lactating stage for the health of both mother and child, Nutrition Centers running in 6 villages. Nutritious food like chikki, dates, banana, and apple etc. are provided to 69 enrolled Pregnant and Lactating Mothers (PLM) and providing services such as health check-ups, weight measurements, building awareness on health related issues etc.

- Total 61 delivery taken place in 6 villages. It includes last year's & current year enrolled PLM.
- 100% delivery reported institutional delivery.
- Average baby weight at the time of birth reported to 2.8 kg with 95% normal delivery.

B. Preventive Health Care

B.1 Fogging Operation: To control mosquitoes and other vector borne diseases, fogging operation initiated in 8 villages. The fogging is conducting once in a week in each village. This activity has brought down the cases of vector borne diseases and no dengue and malaria patients reported during the year.

B.2 Providing Potable Drinking Water: GMRVF and GWEL Installed 17 Water ATM in 17 villages in Warora Tehsil. These villages are Yensa, Dongargaon, Dahegaon, Chikini, Charur Khati, Chinora, Majra Rai, Majra Khurd, Mohbala, Marda, Nimsada, Naidev, Wanoja and Bawane Layout, Wandhli, Kondala and Ekona villages. These Water ATM installed in past 5 years and providing clean and fluoride free water to more than 12,000 people (nearly 3000 households).

B.3 Individual and Community Tollets: Open defecation in villages of Warora is one of the major causes of community health hazards. To combat this, GWEL CSR initiated Individual Sanitary Lavatories (ISL) construction in the year 2015 in selected households. Later in line with Nirmal Bharat Abhiyan of GOI, GWEL & GMRVF has sponsored the construction of ISL in 14 villages.

- GWEL CSR has supported construction of 764 ISL in 14 villages as of 2023.
- GWEL CSR further support construction of 110 ISL in five villages this year 2023-24.
- The created ISL has been handed over to community in all villages. All toilets are functioning well
 and no damage reported during the year. It is also noticed that toilets are maintained by
 individual beneficiary.
- The community toilet provided its services throughout the year at Dongargaon, which is being used by 55 users daily.
- These efforts have helped to convert 8 villages as open defecation free (ODF).

B.4 Special Health Camp: 34 special health camp organized during the year in 18 villages with the support from Acharya Vinoba Bhave Rural Hospital, Wardha and Rashtra Sant Tukdoji Maharaj Cancer Hospital, Nagpur. The camps were planned to provide proper diagnosis and advises to all critical patients for bones, eyes, and other surgery, oral and cervical cancer. Total 3044 people visited the camps from villages and received free medicines and 184 advised for further treatments.



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C. Health Awareness Session

C.1 General Awareness: 114 health awareness sessions conducted in 10 villages during this year to create community awareness on various health issues at clinic centers and other places in villages with the help of volunteers. Around, 2,710 villagers benefitted.

C.2 Nutrition Center Awareness Program: 205 awareness programs conducted on Gudiya Model, PDH hearth Sessions and Best Practice (Indian Traditional Knowledge- ITK) assessment sessions, Annaprashan and Healthy Baby Competition conducted with pregnant and lactating mothers and other women in the villages that talks about taking step by step proper homemade nutrition and care for pregnant women at nutrition centers. Total 2,460 women benefitted from these awareness sessions.

C.3 Support to TB Patients: Employees of GMR Warora Energy Ltd. (GWEL) with their family members have supported nutrition kits to seven TB Patients under National TB Eradication Program this year. GMRVF has supported seven patients two times through Government Hospital Warora.

EMPOWERMENT & LIVELIHOODS

GMRVF and GWEL focus on to channelize youth and women towards entrepreneurship and livelihood development, so that they may participate equitably in economic. Major interventions under empowerment & livelihood undertaken in reporting period are:

A. Vocational Training

A.1 Vocational Training Centre (VTC), Warora: GMRVF Center for Empowerment and Livelihoods, Warora (CEL-W), Warora, continued two self-employment courses at Warora this year. These are Smartphone Hardware Repairing Technician (SPHRT) and Assistant Beauty Therapist (ABT). Total 156 students successfully completed the course and 98 students have been settled in self-employment work or joined small shops this year. The training details are given below.

Table 1 : Vocational Training details of VTC Warora.

Alexand of the second	No. of	No. Trained		No. Settled	
Name of the course	batches 4	M 42	F	M 24	F 0
Smart Phone & Hardware Repairing Technicians					
Assistant Beauty Therapist	4	0	115	0	74

VTC Warora celebrated important days during the year such as world youth skill day, Ambedkar Jayanti, Independence and Republic Day, Teachers days, Women Day etc. Apart from this, free service camp, exposure trip to industries, Heartfulness Education Learning Program (HELP) organized in the center to provide full orientation of subjects to youths. This all helps to start their business immediately after completion of course. Apart from this, GWEL CSR has sponsored 11 youths from Warora for job oriented vocational courses at GMRVF CEL Delhi.



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B. In village skill training program

B.1 Training on System of Wheat Intensification (SWI), Mushroom and Vermicomposting: To promote new agricultural technologies in villages GWEL CSR has organized 5 days training in 10 batches on System of Wheat Intensification (SWI) for 10 village farmers and reached to more than 500 farmers. Apart from this, training conducted on Mushroom Cultivation, Vegetable cultivation and Vermicomposting with more than 300 women to increase the crop production and livelihood.

C. Self Help Groups

C.1 SHG Meetings and SHG MIS: To empower women and make them self-reliance GMRVF is Intensively working with 91 Women SHGs (1136 women) and 7 Men SHGs (98 men) in 8 villages. The cumulative saving of all SHGs are more than Rs. 1.2 Cr. All 98 SHGs are linked with banks and maintaining records and involved in inter-lending activities within and outside group. Women of SHG have used their saving money for running income generation activities and also used for meeting their house hold requirement specially during crises.

C.2 SHG Trainings on Micro Enterprise Development: GMRVF has organized several round of formal and informal training with more than 1000 women from more than 75 SHGs cross eight villages during the year on enterprise development. Trainings covered topics on vermicomposting, mushroom cultivation, poultry farming, System of Wheat Intensification, Floriculture, Vegetable Cultivation, Collective Marketing and how does an enterprise work. These training are motivating women to initiate various activities in the villages.

C.3 Celebration of International Women Day: This year women day was celebrated in 6 villages and VTC under the theme of "Invest in Women : Accelareting Progress" alming to close the gender gaps and promote women and girls empowerment. More than 500 girls and women from the 6 events from villages and VTC attended the program.

D. Support to micro-enterprises and other livelihood activities

D.1 Promotion of Small Income Generation Activities through SHGs: This year GMRVF has initiated promoting micro enterprises activities considering the crop losses due to flood. A reconnaissance survey conducted and based on the findings livelihood restoration plan was implemented with 1337 women and farmers. The details of income Generation Activities (IGA) undertaken this year are attached as Annexure 1.

- There are total 1337 people actively engaged in IGA activities.
- 875 out of 1337 people are earning an additional income of Rs 7000/- per year.



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E.1 Farmers Training: To improve farmer's income GWEL CSR has organized 30 trainings on SWI cultivation, vegetable cultivation and floriculture cultivation practices to farmers of 6 villages. Over 350 farmers attended the trainings and adopted improved agricultural practices.

E.2 Grain-Cash-Seed Bank: This year three GCS banks from Dongargaon, Charur Khati and Dahegaon have contributed 7.75 Lakhs and reached to 250 farmers under soybeans and cotton seeds farmers. GCS Bank used their own recourses and covered 250 acres land from their initiative.

E.3 Vegetable Cultivation & Collective Marketing: To promote livelihoods through farm based activity vegetable cultivation with SHG women initiated across six villages. GWEL CSR has distributed seeds in June 23 to 148 SHG women to enhance livelihood but the action failed due to heavy rains and flooding. GWEL CSR has again organized the women group and provided vegetable seeds in second round to 85 women from 24 SHGs to tap winter season crop. All women have grown vegetable successfully and earned more than 21 lakhs altogether from the sale of vegetables just in three months of period starting from January to March 24. However, 33 women from four villages formed producer groups to start selling vegetables collectively. All beneficiaries of this group has done collective marketing and earned more than Rs. 10.20 lakhs just in three months.

E.4 System of Wheat Intensification (SWI): GMRVF with the partnership of NABARD implemented a project on "Enhancing Income of Small and Marginal Farmers by Adopting System of Wheat Intensification (SWI) method and Internet of Things (IOT) in Agriculture in Warora, Chandrapur (MH)". The project has selected 350 small and marginal farmers from 10 villages and implemented SWI method of wheat cultivation. The crop performance study shows the yield of SWI Wheat from 10-14 quintal per acre. It is estimated that each beneficiary farmer has earned average Rs 16,891/-additional income from the crop cultivation under this project.

E.5 IOT In Agriculture: Under the GMRVF and NABARD project, IOT in agriculture has been introduced with 50 farmers during this year. SMARTH Mobile motor controller system is installed in the villages in farmers' field, which linked with android mobile, is enabling farmers to operate their pumping units remotely. The system is reducing drudgery of farmer, time and money. To enhance partnership and ownership of system each farmers has contributed Rs.1067/- as their contribution. The system is liked by all farmers and demand to install more unit is expressed by farmers during the discussion.

E.6 Precision Farming: GMRVF is Introducing precision farming in agriculture to reduce agricultural input cost, increase production and profitability. GMRVF and Labhan Sarad FPO Khambada has agreed to conduct spraying using Drone Technology and extend services to farmers at very lowest prices compare to prevailing rates of spraying. The Drone technology will revolutionize the agriculture in Warora and help farmers to reduce 15-30% spraying cost and improve quality of produce.



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COMMUNITY DEVELOPMENT

- A. Village Resource Centers: GWEL CSR is running four Village Resources Center (VRC) at Chinora, Majra Rai, Charur Khati and Dongargaon village. These centers are providing need base information like Education, Health, Empowerment, Agriculture and Govt. Scheme to community. These centers have provided information on Education, Health and Empowerment related schemes to more than 6900 people during the year.
- Blood Donation Camp: This year, GWEL CSR has organizes two-blood donation program in plant where all employee participates to donate the blood. The camps were organized on 14th July 2023 and 13 March 2024 this year and total 259 units of blood donated by GWEL employees.
- C. Infrastructure Work: In order to create cleanliness and hygiene in villages, GWEL and GMRVF supported construction of various works in villages. Following activities undertaken during this year:
 - 1. Construction of Cement Concrete Drain 400 meters at Mohbala village.
 - 2. Over 800 fruit plants transplanted in Majra Khurd.
 - 3. 26000 eucalyptus plants leveraged and planted at farmer's barren land in different villages.
 - 4. 250 meter Fencing laid out at cemetery yard and Old Aged Home Majra Khurd & Borda.
 - 5. 280 m drain of Stone lining constructed for flood protection at Majra Khurd.
 - 6. Culvert and lid constructed at Charur Khati and Nimsada villages.
 - 7. Old Age Home Building repaired at Borda, Warora
 - White washing and minor repairing work undertaken at ZP School Chinora, Majra Khurd, Majra Rai.
 - 9. Shed work at community building Charur Khati undertaken.
 - Platform construction in Community place and Water ATM at Dongargaon, Dahegaon and Chikani respectively.
 - 11. 110 ISL constructed at Chinora, Majra Rai, Majra Khurd, Mohbala (Naidev) and Charur Khati villages.
 - 12. Construction of Bore well at Majra Khurd Cemetery constructed this year.





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IMPACT EVALUATION OF CSR ACTIVITIES

A.1 Impact Assessment of GWEL CSR: Symbiosis International (Deemed) University, Nagpur has conducted impact assessment of CSR activities of GWEL during this year. The study covered 5 year period from 2019 to 2023 and covered 100% villages. The result of the study shows as below:



EMPLOYEE INVOLVEMENT

GWEL have developed village guardian model and each employees including their families and senior management participate in community development programs. This year 710 employees participated in 101 community development programs and contributed 1372 voluntary hours which benefitted more than 5,844 people.



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Celebration of Daan Utsav: This year Daan Utsav was celebrated from 2-8 Oct in villages. Total 7 events conducted, in which 143 employees and SLC members participated in the events and contributed Rs.50,364/- from their Gullak to support 503 marginalized and vulnerable people of Warora block. All GMRites including SLC members contributed more than 190 person hours and demonstrated individual social responsibility.

Social Voluntary Project (SVP): This year, 13 Social Voluntary Projects were implemented by 216 GWEL employees. These employees contributed more than 559 hours of their time to implement projects.

CHALLENGES

- Huge demand for hardware activities and panchayat pressure for the same.
- Collective marketing of vegetables is time bound and require long term planning to capture large wholesale market like Nagpur. Serious planning with all women to make one product cluster is challenging.
- Internet connectivity in villages were challenging in conducting online events.
- Availability of technical expert for RO Water ATM created challenge at the time of damaged.
- Availability of quality faculty is challenging in small place like Warora and hampering the quality of program.

LEARNINGS

- Collective marketing is successfully expanded in four villages and hence it can be used to upscale the business, which can supply products to bigger market.
- Village Resources Center (VRC) played a vital role in helping community to access the benefit of Govt. Schemes. The library converted in to VRC is implemented successfully this year without much investment of resources.
- SW/ is an innovative approach for wheat production enhancement and it is expended successfully across villages and farmers.
- Approach of making at-least three activities as model activities in villages helped in improving program quality.
- Special health camp and regular referral and constant follow up of patient helping in enhancing quality services of health sector as well as building good relation with communities.
- Partnership with NABARD has established in the location, which is helping in enhancing visibility in Govt. System.
- Implementation of simple and low cost new technologies (IOT in Agriculture and precision farming) is accepted by farmers and indicating a more scope in future agriculture.

WAY FORWARD

- Focusing more on digital education in the village to gain better results in coming year.
- Increasing more NABARD projects in order to bring more impact in agriculture and allied activities.
- Scaling up collective marketing and accessing Nagpur market for vegetable.
- Initiate more education activities as per new education policy.
- Start new activities as per strategy document of GMRVF and Initiate precision farming with FPO.
- Maintaining ISO 26000 standard will be in focus throughout the year as ISO authorities will conduct assessment next year.

REQUIRED INFORMATION RELATED TO CSR AS PER THE COMPANIES ACT

S.no	Point as per the Act	Details related to the point
1	Details of the amount available for set off and amount required for set off for the financial year, if any	Rs. 170,03,931.54
2	Details of CSR amount spent against ongoing projects and other than ongoing projects for the financial year.	Rs 269,11,772.80
3	Details of CSR amount spent against ongoing projects during the last FY and FYs preceding the same. (A) Amount spent in Ongoing projects 20-21 - Rs. 125,93,861.00 (B) Amount spent in Ongoing projects 20-21 - Rs. 125,93,861.00 (C) Amount Spent in Ongoing projects 22-23 - Rs 195,58,463.54 (D) Total in previous Three years in Ongoing projects - Rs. 460,54,430.54	Rs. 460,54,430.54
4	Details of amount transferred to unspent CSR account during preceding three years.	Rs. 112,87,823.00
5	Amount transferred to any fund specified in Schedule VII	NIL
6	Amount spent on Administrative Overheads and Impact Assessment, if applicable. (A) Total Admin Expenses 23-24 - Rs. 9,47,105.01 (B) Total Impact Assessment Fee - Rs. 7,67,000.00 TOTAL Amount under this = Rs. 17,14,105.01	Rs. 17,14,105.01
7	Details of Unspent CSR amount (A) Amount Transferred in Unspent Account in 20-21 – Rs. 112,87,823.00 (B) Amount Spent from Unspent Account in 21-22 – Rs. 33,41,778.00 (C) Amount Spent from Unspent Account in 22-23 – Rs. 76,80,858.00 (D) Amount Spent from Unspent Account in 23-24 – Rs. 2,65,187.00 (E) Total Spending from Unspent Account (B)+(C)+(D) = Rs. 112,87,823.00 (F) Balance Unspent Account (A)-(D) = Rs.0.00	Rs. 0.00
8	Amount carried forward and set-off (A) Amt. setoff in 21-22 and carried forward for 22-23 – Rs. 51,26,531.00 (B) Amt. setoff in 22-23 and carried forward for 23-24- Rs. 118,77,605.54 (C) Amt. setoff in 23-24 and carried forward for 24-25 - Rs.229,77,592.01 (D) Total Amt. available in 24-25 for set off (A)+(B)+(C) – Rs. 399,81,523.55	Rs. 399,81,523.55
9	Asset-wise details of capital asset so created or acquired through CSR spent in the financial year	NIL
10	Details of impact assessment of CSR projects; if any	YES
11	State and district of CSR project	Warora Tahsil c Chandrapur districts c Maharashtra State

STAKEHOLDERS FEEDBACK ON AFTER SCHOOL LEARNING CENTER (ASLC)

Brief about Targeted Activity: An after-school learning centre is a specialized educational facility designed to provide additional learning opportunities and support for students beyond their regular school hours. These centres offer a wide range of academic, extracurricular and enrichment activities to help students advance their education, develop important skills and explore their interests. The primary goal of an ASLC is to complement the traditional school curriculum by offering a more personalized and flexible learning environment.

Stakeholders: Students, Volunteer, Teacher, Education Department, Parents, Government Department, Panchayats (PRI), GWEL Employee, GMRVF staff.

Sample size & Survey Process: Total 30 students, 5 students from each.

What can be done better: Classes conducted regularly throughout the year. 100% children reported their ASLC Teacher is good and they liked him/her. 85% students said, they like Math's and English Subject. 86% of surveyed students' scores A++ and A or B Grade in past. Students under Grade C&D could have been brought under A&B category similarly teaching materials could have been develop which can meet the requirement of academic as well as provide interactive learning, and catering the diverse needs and interests of primary school children.

Overall Performance of ASLC: Children participating in the ASLC experience improved academic performance, reinforcing the foundational skills necessary for future success. The initiative has opened up new opportunities for children, broadening their horizons beyond traditional classroom

learning. The student's performance has improved significantly as the very first test at the time of start of session shows 0 students in Grade A & B and 72 students in Grade C and 122 students in Grade D marks. However, the last fortnightly test shows that 161 students scored A Grade; 26 students received B Grade and 7 students achieved C Grade result.

Views of other Stakeholders:



Volunteer: Subject matter volunteer deliver in-depth knowledge of the subject to the students and test their knowledge .The student's participation is very good

Students: All the students are very happy about this center as they are getting lot of knowledge and achieving MLL in each subjects (Math, Marathi & English).

Parents: 98.2% of the parents understand the role of ASLC in Improvement of academic performance of their children. 94.2% of the parents appreciated the changes brought due to ASLC and 93% of the parents appreciated that their children are no longer afraid to go to school. It is also expressed by many parents that their expenses have reduced significantly due to effort made by ASLC of GMRVF.

Annexure 1: Details of Income Generation Activities in Warora.

#	Activities	Village	No of Beneficiaries	Total earning women/farmer	Av Annual Income
1	Mushroom Cultivation	Majra Khurd	10 women	10	750
2	Bengal Shop	Chinote	2 women	2	8500
3	General Stores & Stationary Shop	Chinora, Nimsada, Dahegaon, Majra Rai	11 women	11	8500
4	Utensil Shop	Chinora, Dahegaon, Majra Rai	15 women	15	9000
5	Saree Kits / Tailoring work	Nimsada, Naidev, Dahegaon, Dongargaon	11women	11	18000
6	Washing powder making	Chinora, Charur Khati	6 women	6	8400
7	Organic Insecticide	Nimsada, Charur Khati	2 farmers	2	70000
8	Poultry Farming	Marda, Naidev, Nimsada, Dahegaon, Majra Ral and Dongergaon	98 women	98	2187
9	Floriculture & Dal Mil	Charur Khati	2 farmers	2	20000
10	GCS Bank	Dahegaon, Dongargaon, Charur Khati, Nimsada	250farmers	250	14000
11	Vegetable Cultivation	Marda, Dongargaon, Dahegaon, Charur Khati, Nimsada, Naidav, Majra Rai, Majra Khurd	233women	85	15600
12	System of Wheat Intensification (SWI)	Chinora, Dongargaon, Dahegaon, Charur Khati, Nimsada, Naidev, Majra Bai, Chikani, Kosarsar	350farmers	350	16891
13	Collective Marketing	Charur Kheti	33 women	33	30890
14	Vermicomposting	Majra Khurd	60 women	0	
15	Eucalyptus Plants	All villages	254 Farmers	0	
		Total Beneficiaries	1337	875	20496.8

Note: 875 women/ farmers are earning additional income of Rs. 7000/- annually from IGA



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TEST REPORT

10.13	Report No.:	ME-0252231005		Date: 14.10.2023
	ULR No	TC748723000015918F		101
Name and Address of Customer	Plot No. B-1, M	ENERGY LIMITED. ohabala, MIDC Growth Tehsil: Warora, our (M.S.)		169725 2023
Sample Description / Type	Industrial Effluer	nt Sampling Done by	Laboratory	
Sampling Location	D.M. Plant Effluent	Sample Quantity / Packing	2 L X 1 No. PVC 100mL X 1 No. F 1L X 1 No. Glass	PVC Can
Date of Sampling	05.10.2023	Date of Receipt of Sample	05.10.2023	
Sampling Procedure	IS:3025(Part I);	APHA 24" Ed. 2023, 1060-8	В	
Date of Start of Analysis	05.10.2023	Date of Completion of Analysis	13.10.2023	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
v	Discipline: Chemical Testing: Product Group: Pollution & Environment (Waste Water)				
1	pH		7.6	5.5-9.0	APHA 24# Ed. 2023, 4500-H*-B
2.	Total Dissolved Solids	mg/L	648	2100 Max	IS 3025 (Part 16): 2023
3.	Total Suspended Solids	mg/L	BQL (LOQ:5)	100 Max.	APHA 24* Ed. 2023, 2540-D
4.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	8.0	30 Max	IS 3025 (Part 44): 2023
5.	Chemical Oxygen Demand	mg/L	28	250 Max.	APHA 24 Ed. 2023, 5220-B, 5-18
Б.	Oil and Grease	mg/L	BQL (LOQ:2)	10 Max.	IS 3025 (Part 39): 2021

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
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Harish Mendhi Technical Manager Chemical Testing







Annexure-9



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TEST REPORT

30.000	Report No.:	ME-0253231005		Date: 14.10.2023
0.582	ULR No .:	TC748723000015919F		100
Name and Address of Customer	Plot No. B-1, M	A ENERGY LIMITED. Mohabala, MIDC Growth L Tehsil: Warora, pur (M.S.)		169725 4.2023
Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory	
Sampling Location	Cooling Tower Blow Down	Sample Quantity / Packing	1 L X 1 No. PVC 500mL X 1 No.	
Date of Sampling	05.10.2023	Date of Receipt of Sample	05.10.2023	
Sampling Procedure	IS:3025(Part I)	APHA 24th Ed. 2023, 1050-8		
Date of Start of Analysis	05.10,2023	Date of Completion of Analysis	13.10.2023	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing: Product Group: Pollution & Environment (Waste Water)				
1:	Free Available Chlorine	mg/L	BQL (LOQ:0.05)	0.5 Max.	APHA 24# Ed. 2023, 4500-CI- G
2	Phosphate Total (as P)	mg/L	0.600	5.0 Max.	APHA 24* Ed. 2023, 4500-P, E
3,	Total Chromium (as Cr)	mg/L	BQL (LOQ:0.01)	0.2 Mæx	IS 3025 (Part 2) 2019
4	Zinc (as Zn)	mg/L	0.047	1.0 Max	IS 3025 (Part 2) 2019

Note: 1. BOL: Below Quantification Limit.

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TEST REPORT

	Report No.:	ME-0254231005		Date: 14.10.2023
1 492	ULR No.;	TC748723000015920F		
Name and Address of Customer	Plot No. B-1, I	A ENERGY LIMITED. Mohabala, MIDC Growth & Tehsil: Warora, pur (M.S.)	1 14 CHANNEL COLUMN 24 CHANNEL	169725 4.2023
Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory	
Sampling Location	Condenser Cooling Water	Sample Quantity / Packing	1 L X 1 No. PVC	Can
Date of Sampling	05.10.2023	Date of Receipt of Sample	05.10.2023	
Sampling Procedure	IS:3025(Part I)	APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	05.10.2023	Date of Completion of Analysis	13.10.2023	

Sr. No.	Parameter	Unit	Result	#Limit.	Method Reference
١.	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)				
1	Temperature	°C	29.0	Not to exceed 54C higher than the intake water	APHA 24th Ed. 2023, 2550-B
2.	pH		7.8	6.5 to 8.5	APHA 24th Ed. 2023, 4500-H1-E
3,	Free Available Chlorine	mg/L	BQL (LOQ:0.05)	0.5 Max.	APHA 24th Ed. 2023, 4500-CI G

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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TEST REPORT

Lei sailei				
1923	Report No :	ME-0255231005		Date: 14,10.2023
0525	ULR No.:	TC748723000015921F		
Name and Address of Customer	Plot No. B-1, I	A ENERGY LIMITED. Mohabala, MIDC Growth & Tehsil: Warora, pur (M.S.)	1222-1427-200-1 2769/100	169725
Sample Description / Type	Industrial Efflue	ent Sampling Done by	Laboratory	5
Sampling Location	Boiler Blowdov	vn Sample Quantity / Packing	1 L X 1 No. PVC 500mL X 1 No. F 1 L X 1 No. Glas	PVC Can
Date of Sampling	05.10.2023	Date of Receipt of Sample	05.10.2023	
Sampling Procedure	IS:3025(Part I)	APHA 24" Ed. 2023, 1060-E	3	
Date of Start of Analysis	05 10 2023	Date of Completion of Analysis	13.10.2023	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)				
t.	Total Suspended Solids	mg/L	BQL(LOQ:5)	100 Max.	APHA 24th Ed. 2023, 2540-D
2	Oil and Grease	mg/L	BQL(LOQ:2)	10 Max.	IS 3025 (Part 39): 2021
3.	Copper (as Cu)	mg/L	BQL(LOQ:0.01)	1.0 Max.	IS 3025 (Part 2) 2019
4.	Iron (as Fe)	mg/L	0.103	1.0 Max.	IS 3025 (Part 2) 2019

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
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TEST REPORT

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100	Report No.:	ME-0256231005		Date: 14.10.2023
	ULR No.:	TC748723000015922F		191
Name and Address of Customer	Plot No. B-1,	RA ENERGY LIMITED. Mohabala, MIDC Growth & Tehsil: Warora, apur (M.S.)	A. S. S. R. B. S.	169725 2023
Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory	7
Sampling Location	Ash Pond Effluent	Sample Quantity / Packing	1 L X 1 No. PVC 1 L X 1 No. Glas	
Date of Sampling	05.10.2023	Date of Receipt of Sample	05.10.2023	
Sampling Procedure	IS:3025(Part I); APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	05,10.2023	Date of Completion of Analysis	13 10 2023	

Sr. No.	Parameter	Unit	Result	Method Reference
5	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)			
1.	pH	2.2	7.4	APHA 24th Ed. 2023, 4500-H+-8
2.	Total Suspended Solids	mg/L	52	APHA 24th Ed. 2023, 2540-D
3.	Oil and Grease	mg/L	BQL(LOQ:2)	IS 3025 (Part 39): 2021

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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TEST REPORT

			100	51
SAL SAL	Report No :	ME-0201231103		Date: 11 11.2023
0. S2	ULR No :	C748723000017667F		191
Name and Address of Customer	Plot No. B-1, M	ENERGY LIMITED. ohabata, MIDC Growth Tehsil: Warora, ur (M.S.)		4,2023
Sample Description / Type	Industrial Effluer	nt Sampling Done by	Laboratory	
Sampling Location	D.M. Plant Effluent	Sample Quantity / Packing	2 L X 1 No. PV0 100mL X 1 No. 1L X 1 No. Glas	PVC Can
Date of Sampling	02.11.2023	Date of Receipt of Sample	03.11.2023	
Sampling Procedure	IS:3025(Part I);	APHA 24th Ed. 2023, 1060-1	В	
Date of Start of Analysis	03.11.2023	Date of Completion of Analysis	11.11.2023	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing: Product Group: Pollution & Environment (Waste Water)				
1.	pH		8.0	55.9.0	APHA 24= Ed. 2023, 4500-HB
2	Total Dissolved Solids	mg/L	557	2100 Max	IS 3025 (Part 16): 2023
3	Total Suspended Solids	mg/L	BQL (LOQ:5)	100 Max	APHA 24= Ed. 2023, 2540-D
4	Biochemical Oxygen Demand (3 days 27°C)	mg/L	8.2	30 Max	IS 3025 (Part 44): 2023
5,	Chemical Oxygen Demand	mg/L	28	250 Max.	APHA 24th Ed. 2023, 5220-8, 5-18
6.	Oil and Grease	mg/L	BQL (LOQ:2)	10 Max.	IS 3025 (Part 39): 2021

END OF REPORT

Note: 1. BQL: Below Quantification Limit

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TEST REPORT

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1332	Report No	ME-0202231103		Date: 11.11.2023
回到知	ULR No.:	TC748723000017668F		
Name and Address of Customer	Plot No. B-1, M	A ENERGY LIMITED. Aohabala, MIDC Growth & Tehsil: Warora, pur (M.S.)	1252 U1024 U1026	169725
Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory	
Sampling Location	Cooling Tower Blow Down	Sample Quantity / Packing	1 L X 1 No. PVC 500mL X 1 No. 1	Contrast Con
Date of Sampling	02 11 2023	Date of Receipt of Sample	03.11.2023	
Sampling Procedure	IS:3025(Part I)	APHA 24 th Ed. 2023, 1060-B		
Date of Start of Analysis	03.11.2023	Date of Completion of Analysis	11.11.2023	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)				
1	Free Available Chlorine	mg/L	BQL (LOQ:0.05)	0.5 Max.	APHA 24= Ed. 2023, 4500-CI- G
2.	Phosphate Total (as P)	mg/L	0.549	50 Max	APHA 24* Ed. 2023, 4500-P. E
3.	Total Chromium (as Cr)	mg/L	BQL (LOQ:0.01)	0.2 Max	IS 3025 (Part 2) 2019
4,	Zinc (as Zn)	mg/L	BQL (LOQ:0.02)	1.0 Max.	IS 3325 (Part 2) 2019

END OF REPORT

Note: 1 BQL: Below Quantification Limit.

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TEST REPORT

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治疗法 不	Report No :	ME-0203231103		Date: 11.11.2023
	ULR No.	TC748723000017669F		100
Name and Address of Customer	Plot No. B-1, N	A ENERGY LIMITED. Iohabala, MIDC Growth Tehsil: Warora, pur (M.S.)	I DOMESSION DATE: DATE: D	169725
Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory	
Sampling Location	Condenser Cooling Water	Sample Quantity / Packing	1 L X 1 No. PVC	Can
Date of Sampling	02.11.2023	Date of Receipt of Sample	03.11.2023	
Sampling Procedure	IS:3025(Part I);	APHA 24 th Ed. 2023, 1060-B		
Date of Start of Analysis	03.11.2023	Date of Completion of Analysis	11.11.2023	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)				
1.	Temperature	°C	29	Not to exceed 5°C higher than the intake water	APHA 24th Ed. 2023, 2550-B
2.	pH		7.7	6.5 to 8.5	APHA 24th Ed. 2023, 4500-H1-B
3.	Free Available Chibrine	mg/L	BQL (LOQ 0.05)	0.5 Max.	APHA 24th Ed. 2023, 4500-CI G

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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TEST REPORT

트 운영 트				11
13370	Report No.:	ME-0204231103		Date: 11.11.2023
DE 92	ULR No	TC748723000017670F		
Name and Address of Customer	Plot No. B-1,	A ENERGY LIMITED. Mohabala, MIDC Growth & Tehsil: Warora, apur (M.S.)	SO No. 480016 SO Date: 10.04,2	1 T 1 1 1 2 7 2 1 1
Sample Description / Type	Industrial Efflu	ent Sampling Done by	Laboratory	
Sampling Location	Boiler Blowdov	wn Sample Quantity / Packing	1 L X 1 No. PVC 0 500mL X 1 No. PV 1 L X 1 No. Glass	/C Can
Date of Sampling	02.11.2023	Date of Receipt of Sample	03 11 2023	
Sampling Procedure	IS:3025(Part I)	, APHA 24 th Ed. 2023, 1060-I	B	
Date of Start of Analysis	03.11.2023	Date of Completion of Analysis	11.11.2023	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)				
1.	Total Suspended Solids	mg/L	5	100 Max.	APHA 24th Ed. 2023, 2540-D
2	Oil and Grease	mg/L	BQL(LOQ 2)	10 Max	IS 3025 (Part 39): 2021
3_	Copper (as Cu)	mg/L	BQL(LOQ:0.01)	1.0 Mar.	IS 3025 (Parl 2) 2019
4	Iron (as Fe)	mg/L	BQL(LOQ:0.03)	1.0 Max	IS 3025 (Part 2) 2019

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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IN 19

Analysis

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TEST REPORT

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	10.00	Report No.:	ME-0205231103		Date: 11.11.2023	
		ULR No.:	TC748723000017671F		68 J	k
	Name and Address of Customer	Plot No. B-1,	RA ENERGY LIMITED. Mohabala, MIDC Growth & Tehsil: Warora, apur (M.S.)		169725	
į	Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory	T	
	Sampling Location	Ash Pond Effluent	Sample Quantity / Packing	1 L X 1 No. PVC 1 L X 1 No. Glas	And and the second s	
	Date of Sampling	02.11.2023	Date of Receipt of Sample	03.11.2023		p
	Sampling Procedure	IS:3025(Part)); APHA 24th Ed. 2023, 1060-B			
	Date of Start of	03.11.2023	Date of Completion of	11.11.2023		1

Sr. No.	Parameter	Unit	Result	Method Reference
	Discipline: Chemical Testing: Product Group: Pollution & Environment (Waste Water)			
1	pH		7.7	APHA 24th Ed. 2023, 4500-H*-B
2	Total Suspended Solids	mg/L	66	APHA 24th Ed. 2023, 2540-D
3.	Oil and Grease	mg/L	BQL(LOQ:2)	IS 3025 (Part 39): 2021

Analysis

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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Page 1 of 1 GF/SALE/02 Issue No 03 Date 05.12.2019. Amd 03 Date 18.07.2023 Reviewed and authorised by









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TEST REPORT

L Styles				100
STAFS.	Report No : M	E-0342231206		Date: 14.12.2023
	ULR No.: T	C748723000019738F		
Name and Address of Customer	1 101416000 0000000000000000000000000000	A REAL PROPERTY AND A REAL	2.20.625.0 A GO = 12.75775.3	169725
Sample Description / Type	Industrial Effluent	t Sampling Done by	Laboratory	
Sampling Location	D.M. Plant Effluent	Sample Quantity / Packing	2 L X 1 No. PVC 100mL X 1 No. 1 1L X 1 No. Glass	PVC Can
Date of Sampling	05.12.2023	Date of Receipt of Sample	06 12 2023	
Sampling Procedure	IS:3025(Part I); A	PHA 24" Ed. 2023, 1060-E	3	
Date of Start of Analysis	06.12.2023	Date of Completion of Analysis	13.12.2023	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)				
1-	pH		8.0	5.5-9.0	APHA 24" Ed. 2023, 4500-H1-B
2.	Total Dissolved Solids	mg/L	790	2100 Max.	IS 3025 (Part 16): 2023
3.	Total Suspended Solids	mg/L	BQL (LOQ.5)	100 Max	APHA 24th Ed. 2023, 2540-D
4.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	8.2	30 Max	IS 3025 (Part 44): 2023
5.	Chemical Oxygen Demand	mg/L	28	250 Max.	APHA 24 th Ed. 2023, 5220-B, 5-18
6	Oil and Grease	ma/L	BQL (LOQ:2)	10 Max	IS 3025 (Part 39): 2021

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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TEST REPORT

	Report No.:	ME-0343231206		Date: 14.12.2023
0129	ULR No	TC748723000019739F		
Name and Address of Clustomer	Plot No. B-1, M	A ENERGY LIMITED. Aohabala, MIDC Growth E Tehsil: Warora, pur (M.S.)	1 - T - T - T - T - T - T - T - T - T -	169725
Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory	
Sampling Location	Cooling Tower Blow Down	Sample Quantity / Packing	1 L X 1 No. PV0 500mL X 1 No. 1	the same at the S
Date of Sampling	05.12.2023	Date of Receipt of Sample	06.12.2023	
Sampling Procedure	IS:3025(Part I)	APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	06.12.2023	Date of Completion of Analysis	13.12.2023	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing: Product Group: Pollution & Environment (Waste Water)				
1-	Free Available Chlorine	mg/L	BQL (LOQ 0.05)	0.5 Max.	APHA 24* Ed. 2023, 4500-CI- G
2.	Phosphate Total (as P)	mg/L	0.560	5 0 Max.	APHA 24* Ed. 2023, 4500-P, E
3.	Total Chromium (as Cr)	mg/L	BQL (LOQ:0.01)	0.2 Max.	IS 3025 (Part 2) 2019
4.	Zinc (as Zn)	mg/L	0.024	1.0 Max.	IS 3025 (Part 2) 2019

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TEST REPORT

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46.65	Report No.:	ME-0344231206		Date: 14.12.2023
	ULR No.	TC748723000019740F		
Name and Address of Customer	Plot No. B-1, M	A ENERGY LIMITED. Mohabala, MIDC Growth & Tehsil: Warora, pur (M.S.)	Contraction and Contraction	169725
Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory	
Sampling Location	Condenser Cooling Water	Sample Quantity / Packing	1 L X 1 No. PVC	Can
Date of Sampling	05.12.2023	Date of Receipt of Sample	06 12 2023	
Sampling Procedure	IS:3025(Part I)	APHA 24 ^m Ed. 2023, 1060-B		
Date of Start of Analysis	06 12 2023	Date of Completion of Analysis	13.12.2023	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)				
î.:	Temperature	°C	26.0	Not to exceed 5%C higher than the intake water	APHA 24th Ed. 2023, 2550-B
2,	pH	1.00	7.5	651085	APHA 24th Ed. 2023, 4500-H+-B
3.	Free Available Chlorine	mg/L	BQL (LOQ:0.05)	0.5 Max	APHA 24th Ed. 2023, 4500-CI G

END OF REPORT

Note: 1 BQL Below Quantification Limit.

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TEST REPORT

	Report No :	ME-0345231206		Date: 14.12.2023
■€92	ULR No.	TC748723000019741F		
Name and Address of Customer	Plot No. B-1, I	A ENERGY LIMITED. Mohabala, MIDC Growth & Tehsil: Warora, spur (M.S.)	155555000 US857	4.2023
Sample Description / Type	Industrial Efflu	ent Sampling Done by	Laboratory	
Sampling Location	Boiler Blow Do	Sample Quantity / Packing	1 L X 1 No. PV0 500mL X 1 No. 1 L X 1 No. Glav	PVC Can
Date of Sampling	05 12 2023	Date of Receipt of Sample	06.12.2023	
Sampling Procedure	IS:3025(Part I)	APHA 24 th Ed. 2023, 1060-	8	
Date of Start of Analysis	06.12.2023	Date of Completion of Analysis	13.12.2023	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)				
fie.	Total Suspended Solids	mg/L	5	100 Max.	APHA 24th Ed. 2023, 2540-D
2.	Oil and Grease	mg/L	BQL(LOQ:2)	10 Max	IS 3025 (Part 39): 2021
3.	Copper (as Cu)	mg/L	BQL(LOQ:0.01)	1.0 Max.	IS 3025 (Pan 2) 2019
4	Iron (as Fe)	mg/L	0.041	1.0 Max.	IS 3025 (Part 2) 2019

END OF REPORT

Note: 1. BQL Below Quantification Limit.

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TEST REPORT

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23475	Report No :	ME-0346231206		Date: 14.12.2023
OCS STREET	ULR No.:	TC748723000019742F		1991
Name and Address of Customer	Plot No. B-1,	RA ENERGY LIMITED. Mohabala, MIDC Growth & Tehsil: Warora, apur (M.S.)		169725
Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory	×
Sampling Location	Ash Pond Effluent	Sample Quantity / Packing	1 L X 1 No. PVC 1 L X 1 No. Glas	64735790A
Date of Sampling	05.12.2023	Date of Receipt of Sample	06.12.2023	
Sampling Procedure	IS:3025(Part I); APHA 24 th Ed. 2023, 1060-B		
Date of Start of Analysis	06.12.2023	Date of Completion of Analysis	13.12.2023	

Sr. No.	Parameter	Unit	Result	Method Reference
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)			
1	pH		7.4	APHA 249 Ed. 2023, 4500-Hr-B
2	Total Suspended Solids	mg/L	58	APHA 24# Ed. 2023, 2540-D
3.	Oil and Grease	mg/L	BQL(LOQ 2)	IS 3025 (Part 39): 2021

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2 LOQ Limit of Quantification.
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TEST REPORT

tet H	Report No.: M	E-0291240105		Date: 13.01.2024
	ULR No. TO	C748724000000263F		Star I
Name and Address of Customer			Department of the second se	169725
Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory	
Sampling Location	D.M. Plant Effluent	Sample Quantity / Packing	2 L X 1 No. PVC 100mL X 1 No. F 1L X 1 No. Glass	VC Can
Date of Sampling	05.01.2024	Date of Receipt of Sample	05.01.2024	
Sampling Procedure	IS:3025(Part I); A	PHA 24 th Ed. 2023, 1060-E	3	
Date of Start of Analysis	05.01.2024	Date of Completion of Analysis	12.01.2024	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing: Product Group: Pollution & Environment (Waste Water)				
1.	pН	-	7.5	5.5-9.0	APHA 24# Ed. 2023, 4500-H*-B
2.	Total Dissolved Solids	mg/L	835	2100 Max.	IS 3025 (Part 16): 2023
3.	Total Suspended Solids	mg/L	BQL (LOQ:5)	100 Max.	APHA 24# Ed. 2023, 2540-D
4	Biochemical Oxygen Demand (3 days 27°C)	mg/L	5,9	30 Max	IS 3025 (Part 44): 2023
5.	Chemical Oxygen Demand	mg/L	20	250 Max.	APHA 24" Ed. 2023, 5220-B, 5-18
6	Oil and Grease	mg/L	BQL (LOQ:2)	to Max.	IS 3025 (Part 39): 2021

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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TEST REPORT

		and the second second	-0	To the second
	Report No.:	ME-0292240105		Date: 13.01.2024
	ULR No :	TC748724000000264F		55-6
Name and Address of Customer	Plot No. 8-1, M	A ENERGY LIMITED. Iohabala, MIDC Growth L Tehsil: Warora, pur (M.S.)	Contraction of the second s	169725
Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory	
Sampling Location	Cooling Tower Blow Down	Sample Quantity / Packing	1 L X 1 No. PVC 500mL X 1 No. 1	
Date of Sampling	05.01.2024	Date of Receipt of Sample	05.01.2024	
Sampling Procedure	IS:3025(Part I)	APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	05.01.2024	Date of Completion of Analysis	12.01.2024	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group; Pollution & Environment (Waste Water)				
le,	Free Available Chlorine	mg/L	BQL (LOQ:0.05)	0.5 Max.	APHA 24* Ed. 2023, 4500-CI- G
2.	Phosphate Total (as P)	mg/L	0.328	5.0 Max.	APHA 24ª Ed. 2023, 4500-P, E
3	Total Chromium (as Cr)	mg/L	BQL (LOQ.0.01)	0.2 Max	IS 3025 (Part 2) 2019
4	Zinc (as Zn)	mg/L	0.066	1.0 Max	IS 3025 (Part 2) 2019

END OF REPORT

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TEST REPORT

CEL STOCKED				1
1000	Report No ::	ME-0293240105	Date: 13.01.2024	
	ULR No.:	TC748724000000265F		15-1
Name and Address of Customer	Plot No. B-1, M	A ENERGY LIMITED. Mohabala, MIDC Growth & Tehsil: Warora, pur (M.S.)		169725
Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory	
Sampling Location	Condenser Cooling Water	Sample Quantity / Packing		
Date of Sampling	05.01.2024	Date of Receipt of Sample	05.1.2024	
Sampling Procedure	IS:3025(Part I)	APHA 24 th Ed. 2023, 1060-B		
Date of Start of Analysis	05 01 2024	Date of Completion of Analysis	12.01.2024	

Sr. No.	Parameter	Unit	Result	ØLimit	Method Reference
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)				
1,	Temperature	°C	27	Not to exceed 5% higher than the intake water	APHA 24th Ed. 2023, 2550-B
2.	pH	- 94	7.5	6.5 to 8.5	APHA 24th Ed. 2023, 4500-H+-8
3.	Free Available Chlorine	mg/L	BQL (LOQ:0.05)	0.5 Max.	APHA 24th Ed. 2023, 4530-CI G

END OF REPORT

Note: 1. BQL Below Quantification Limit.

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TEST REPORT

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Constant of the	Report No . N	ME-0294240105		Date: 13.01.2024
面积	ULR No 1	C748724000000266F		1.87
Name and Address of Customer				169725 4.2023
Sample Description / Type	Industrial Effluer	it Sampling Done by	Laboratory	-
Sampling Location	Boiler Blow Dow	n Sample Quantity / Packing	1 L X 1 No. PVC 500mL X 1 No. 1 L X 1 No. Glas	PVC Can
Date of Sampling	05.01.2024	Date of Receipt of Sample	05.01 2024	
Sampling Procedure	IS:3025(Part I); /	APHA 24 th Ed. 2023, 1060-B		
Date of Start of Analysis	05.01.2024	Date of Completion of Analysis	12.01.2024	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing: Product Group: Pollution & Environment (Waste Water)				
1.	Total Suspended Solids	mg/L	BQL(LOQ:5)	100 Max	APHA 24th Ed. 2023, 2540-D
2	Oil and Grease	mg/L	BQL(LOQ:2)	10 Mex.	IS 3025 (Part 39): 2021
3	Copper (as Cu)	mg/L	0.011	1.0 Max.	(\$ 3025 (Part 2) 2019
4	Iron (as Fe)	mg/L	0.198	1.0 Max.	IS 3025 (Part 2) 2019

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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TEST REPORT

	1.97 CTT				58
4	1.1	Report No :	ME-0295240105	Date: 13.01.2024	
	17 55	ULR No :	TC748724000000267F		1 <u>1</u> 1
10.044	me and dress of Customer	Plot No. B-1,	RA ENERGY LIMITED. Mohabala, MIDC Growth & Tehsil: Warora, apur (M.S.)	DEPENDING STORES	2023
1000	mple scription / Type	Industrial Effluent	Sampling Done by	Laboratory	
Sa	mpling Location	Ash Pond Effluent	Sample Quantity / Packing	1 L X 1 No. PVC 1 L X 1 No. Glas	A 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Da	te of Sampling	05.01.2024	Date of Receipt of Sample	05.01.2024	
Sa	mpling Procedure	IS:3025(Part I); APHA 24th Ed. 2023, 1060-B		
1.00	ite of Start of alysis	05.01.2024	Date of Completion of Analysis	12.01.2024	

Sr. No.	Parameter	Unit	Result	Method Reference
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)			
1.	pH	1	7.6	APHA 24ª Ed. 2023, 4500-HB
2	Total Suspended Solids	mg/L	71	APHA 24ª Ed. 2023, 2540-D
3.	Oil and Grease	mg/L	BQL(LOQ:2)	IS 3025 (Part 39): 2021

END OF REPORT

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TEST REPORT

23382	Report No.: N	/E-0448240207		Date: 13.02 2024
DUL.	ULR No : T	C748724000002257F		
Name and Address of Customer		Contraction of the Contraction o	Strate Carlo State and Strategy Strategy	0169725 4.2023
Sample Description / Type	Industrial Effluer	t Sampling Done by	Laboratory	
Sampling Location	D.M. Plant Effluent	Sample Quantity / Packing	2 L X 1 No. PVC Can 100mL X 1 No. PVC Can 1L X 1 No. Glass Bottle	
Date of Sampling	06.02.2024	Date of Receipt of 07.02.2024 Sample		
Sampling Procedure	IS:3025(Part I); /	APHA 24" Ed. 2023, 1060-E	3	
Date of Start of Analysis	07.02 2024	Date of Completion of 12.02.2024 Analysis		

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing: Product Group: Pollution & Environment (Waste Water)				
1.	pH	*	7.9	5.5-9.0	APHA 24th Ed. 2023, 4500-Hr-B
2	Total Dissolved Solids	mg/L	705	2100 Max.	IS 3025 (Part 16): 2023
3,	Total Suspended Solids	mg/L	6	100 Max.	APHA 24th Ed. 2023, 2540-D
4.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	6.0	30 Max	IS 3025 (Part 44): 2023
5.	Chemical Oxygen Demand	mg/L	24	250 Max	APHA 24th Ed. 2023, 5220-B, 5-18
6	Oil and Grease	mg/L	BQL (LOQ:2)	10 Max	IS 3025 (Part 39): 2021

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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TEST REPORT

4644	Report No.:	ME-0449240207		Date: 13.02.2024
07333	ULR No :	TC748724000002258F		201
Name and Address of Customer	Plot No. B-1, M	A ENERGY LIMITED. Nohabala, MIDC Growth & Tehsil: Warora, pur (M.S.)	Card Without Constants	169725
Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory	1
Sampling Location	Cooling Tower Blow Down	Sample Quantity / Packing	1 L X 1 No. PVC Can 500mL X 1 No. PVC Can	
Date of Sampling	06.02.2024	Date of Receipt of Sample 07.02.2024		
Sampling Procedure	IS:3025(Part I)	APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	07.02.2024	Date of Completion of Analysis	12.02.2024	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing: Product Group: Pollution & Environment (Waste Water)				
ŧ.,	Free Available Chlorine	/mg/L	BQL (LOQ:0.05)	0,5 Max.	APHA 24* Ed. 2023, 4500-CI- G
2	Phosphate Total (as P)	mg/L	0.785	5.0 Max	APHA 24h Ed. 2023, 4500-P. E.
3.	Total Chromium (as Cr)	mg/L	BQL (LOQ:0.01)	0.2 Max	IS 3025 (Part 2) 2019
4.	Zinc (as Zn)	ma/L	0.074	1.0 Max.	IS 3025 (Part 2) 2019

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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TEST REPORT

200	Report No :	ME-0450240207		Date: 13 02.2024
自然感	ULR No: TC748724000002259F			221
Name and Address of Customer	Plot No. B-1, I	A ENERGY LIMITED. Mohabala, MIDC Growth & Tehsil: Warora, pur (M.S.)	SO No.: 4800 SO Date: 10.04	169725 1.2023
Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory	1
Sampling Location	Condenser Cooling Water	Sample Quantity / Packing	1 L X 1 No. PVC Can	
Date of Sampling	06.02.2024	Date of Receipt of Sample	le 07.02.2024	
Sampling Procedure	IS:3025(Part I)	APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	07.02.2024	Date of Completion of Analysis	12.02.2024	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)				
1 .	Temperature	°C	29	Not to exceed 5% higher than the intake water	APHA 24th Ed. 2023, 2550-B
2.	pH	10	7.6	65 to 85	APHA 24th Ed. 2023, 4500-H+-B
3.	Free Available Chlorine	mg/L	BQL (LOQ:0.05)	0.5 Max.	APHA 24th Ed. 2023, 4500-CI G

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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TEST REPORT

22520 A	Report No.:	ME-0451240207		Date 13 02 2024
	ULR No :	TC748724000002260F		1551
Name and Address of Customer	Plot No. B-1, I	A ENERGY LIMITED. Mohabala, MIDC Growth L Tehsil: Warora, pur (M.S.)		0169725 4.2023
Sample Description / Type	Industrial Efflue	ent Sampling Done by	Sampling Done by Laboratory	
Sampling Location	Boller Blow Do	Quantity / Packing 500mL .		C Can PVC Can ss Bottle
Date of Sampling	06.02.2024	Date of Receipt of 07.02.2024 Sample		
Sampling Procedure	IS:3025(Part I)	APHA 24th Ed. 2023, 1060-E	3	
Date of Start of Analysis	07.02.2024	Date of Completion of Analysis	12.02.2024	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing: Product Group: Pollution & Environment (Waste Water)				
1,	Total Suspended Solids	mg/L	5	100 Max	AFHA 24* Ed. 2023, 2540-D
2.	Oil and Grease	mg/L	BQL(LOQ:2)	10 Max	IS 3025 (Part 39): 2021
3,	Copper (as Cu)	mg/L	BQL(LOQ:0.01)	1.0 M≥x.	IS 3025 (Part 2) 2019
4.	Iron (as Fe)	mg/L	BQL(LOQ:0.03)	1.0 Max.	IS 3025 (Part 2) 2019

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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TEST REPORT

10.15	Report No.:	ME-0452240207		Date: 13.02.2024
	ULR No :: TC748724000002261F			
Name and Address of Customer	Plot No. B-1,	RA ENERGY LIMITED. Mohabala, MIDC Growth & Tehsil: Warora, apur (M.S.)		169725
Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory	Y
Sampling Location	Ash Pond Effluent	Sample Quantity / Packing	1 L X 1 No. PVC 1 L X 1 No. Glas	
Date of Sampling	06.02.2024	Date of Receipt of Sample 07.02.2024		
Sampling Procedure	IS:3025(Part I); APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	07.02.2024	Date of Completion of Analysis	12.02.2024	

Sr. No.	Parameter	Unit	Result	Method Reference
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)			
1.	pH	32	7.3	APHA 24" Ed. 2023, 4500-H+-8
2.	Total Suspended Solids	mg/L	189	APHA 24P Ed. 2023, 2540-D
З,	Oil and Grease	mg/L	BQL(LOQ:2)	(\$ 3025 (Part 39): 2021

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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TEST REPORT

E13/3E1					
407.05	Report No.: ME	E-0591240309		Date: 16.03.2024	
0785a	ULR No.: TC	ULR No.: TC748724000004251F			
Name and Address of Customer				169725	
Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory		
Sampling Location	D.M. Plant Effluent			Can PVC Can s Bottle	
Date of Sampling	08.03.2024	Date of Receipt of Sample	09.03.2024		
Sampling Procedure	IS:3025(Part I); AP	PHA 24 th Ed. 2023, 1060-8	3		
Date of Start of Analysis	09.03.2024	Date of Completion of Analysis	15.03.2024		

Sr. No,	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)				
1	PH		8.0	5.5-9.0	APHA 24 th Ed. 2023, 4500-H8
2.	Total Dissolved Solids	mg/L	628	2100 Max.	IS 3025 (Part 16): 2023
3	Total Suspended Solids	mg/L	5	100 Max.	APHA 24# Ed. 2023, 2540-D
4.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	8.8	30 Max.	IS 3025 (Part 44): 2023
5	Chemical Oxygen Demand	mg/L	28	250 Max.	APHA 24* Ed. 2023, 5220-B, 5-18
6.	Oil and Grease	mg/L	BQL (LOQ:2)	10 Max.	15 3025 (Part 39): 2021

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

2. LOQ: Limit of Quantification.

3. #: Limit as per MPCB Consent.

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TEST REPORT

(E1947) E1				I
S. 43.5	Report No.:	ME-0592240309	Date: 16.03.2024	
0.682	ULR No.:	TC748724000004252F		191
Name and Address of Customer	Plot No. B-1, M	A ENERGY LIMITED. Nohabala, MIDC Growth L Tehsil: Warora, pur (M.S.)	DESCRIPTION DESCRIPTION	169725
Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory	
Sampling Location	Cooling Tower Blow Down	Sample Quantity / Packing	1 L X 1 No. PVC 500mL X 1 No. F	
Date of Sampling	08.03.2024	Date of Receipt of Sample 09.03.2024		
Sampling Procedure	IS:3025(Part I)	APHA 24" Ed. 2023, 1060-B		
Date of Start of Analysis	09.03.2024	Date of Completion of Analysis	15.03.2024	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing: Product Group: Pollution & Environment (Waste Water)				
ç.	Free Available Chlorine	mg/L	BQL (LOQ:0.05)	0.5 Max	APHA 24* Ed. 2023, 4500-CI- G
2	Phosphate Total (as P)	mg/L	1.02	50 Max	APHA 24** Ed. 2023, 4500-P; E
3.	Total Chromium (as Cr)	mg/L	BQL (LOQ:0.01)	0.2 Max.	IS 3025 (Part 2) 2019
4.	Zinc (as Zn)	mg/L	0.024	1.0 Max.	IS 3025 (Part 2) 2019

END OF REPORT

Note: 1. BQL Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. #: Limit as per MPCB Consent.

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TEST REPORT

44444	Report No.: ME-0593240309			Date: 16.03.2024	
07664	ULR No : TC748724000004253F			1.27	
Name and Address of Customer	Plot No. B-1, M	A ENERGY LIMITED. Mohabala, MIDC Growth & Tehsil: Warora, pur (M.S.)		169725 2023	
Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory		
Sampling Location	Condenser Cooling Water	Sample Quantity / Packing	1 L X 1 No. PVC Can		
Date of Sampling	08.03.2024	Date of Receipt of Sample 09.03.202		24	
Sampling Procedure	15:3025(Part I)	APHA 24 th Ed. 2023, 1060-B	3		
Date of Start of Analysis	09.03.2024	Date of Completion of Analysis	15.03.2024		

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing: Product Group: Pollution & Environment (Waste Water)				
1.	Temperature	×C	30.0	Not to exceed 5°C higher than the intake water	APHA 24th Ed. 2023, 2550-B
2.	pH	165	8.3	651085	APHA 24th Ed. 2023, 4500-HB
3.	Free Available Chiorine	mg/L	BQL (LOQ:0.05)	0.5 Max.	APHA 24th Ed. 2023, 4500-Cl G

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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TEST REPORT

13. AL	Report No.: ME-0594240309			Date: 16.03.2024	
■€\$%L	ULR No.:	TC748724000004254F		,3 X	
Name and Address of Customer	Plot No. B-1, M	A ENERGY LIMITED. Aohabala, MIDC Growth L Tehsil: Warora, pur (M.S.)	A CONTRACT OF	169725 4.2023	
Sample Description / Type	Industrial Efflue	ent Sampling Done by	Laboratory		
Sampling Location	Boiler Blow Do	wn Sample Quantity / Packing	1 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1 L X 1 No. Glass Bottie		
Date of Sampling	08.03.2024	Date of Receipt of Sample	09.03.2024		
Sampling Procedure	IS:3025(Part I)	APHA 24* Ed. 2023, 1060-L	3		
Date of Start of Analysis	09.03.2024	Date of Completion of Analysis			

Sr. P No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Pollution & Invironment (Waste Water)				
1. T	otal Suspended Solids	mg/L	6	100 Max.	APHA 24* Ed. 2023, 2540-D
2. C	Dil and Grease	mg/L	BQL(LOQ:2)	10 Max	IS 3025 (Part 39): 2021
3. C	Copper (as Cu)	mg/L	BQL(LOQ:0.01)	1.0 Max.	IS 3025 (Part 2) 2019
4. lr	ron (as Fe)	mg/L	0,144	1.0 Max.	(S 3025 (Part 2) 2019

END OF REPORT

Note: 1. BQL Below Quantification Limit.

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TEST REPORT

1000	Report No.: ME-0595240309			Date: 16.03.2024	
ULR No.		TC748724000004255F		1 - 2	
Name and Address of Customer	Plot No. B-1, Center, Post	ARORA ENERGY LIMITED. SO No.: B-1, Mohabala, MIDC Growth SO Date: Post & Tehsil: Warora, andrapur (M.S.)		169725	
Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory		
Sampling Location	Ash Pond Effluent	Sample Quantity / Packing	1 L X 1 No. PVC Can 1 L X 1 No. Glass Bottle		
Date of Sampling	08.03 2024	Date of Receipt of Sample	09.03.2024		
Sampling Procedure	IS:3025(Part I); APHA 24" Ed. 2023, 1060-B			
Date of Start of Analysis	09.03.2024	Date of Completion of Analysis	15.03.2024		

Sr. No.	Parameter	Unit	Result	Method Reference	
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)				
1.	pH		8.0	APHA 24** Ed. 2023, 4500-H*-B	
2.	Total Suspended Solids	mg/L	33	APHA 24th Ed. 2023, 2540-D	
3.	Oil and Grease	mg/L	BQL(LOQ 2)	IS 3025 (Part 39): 2021	

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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TEST REPORT

100.00	Report No :	ME-0608231010	Date: 16.10.2023			
	ULR No :	TC748723000016249F	TC748723000016249F			
Name and Address of Customer	Plot No. B Center, Po	ORA ENERGY LIMITED. SO No.: 48001 1, Mohabala, MIDC Growth SO Date: 10.04 st & Tehsil: Warora, drapur (M.S.)		169725		
Sample Description/Type	Ambient N	oise		-		
Date of Sampling	09.10.2023					
Sampling Procedure	CPCB Prot	ocol for Ambient level Noise Mo	nitoring 2015			

Sr. No.	Location	Time in h (day)	Sound Level Les dB (A) Fast Response	Sound Level Leg dB (A) Slow Response	Time in h (Night)	Sound Level Leg dB (A) Fast Response	Sound Level Leg dB (A) Slow Response
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Noise)						
1.	Near CHP	10:05	66.4	(.)	22:10	64.2	5.0
2	Near Switch Yard	10:35	63.3		22:40	61.5	1. C
3.	Near Reservoir	11:05	60,1		22:55	58.3	14 c

Area Code	Area Type	Limits in dB (A) weighted scale			
AND 0 69072	- 11-50-50 - 1 400-5	Day Time (6:00a.m. to 10:00 p.m.)	Night Time (10:00 p.m. to 6:00 a.m.)		
A	Industrial Area	75	70		
B	Commercial Area	65	55		
C	Residential Area	55	45		
D	Silence Zone	50	40		

Note:

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Reviewed and authorised by

Harish Mendhi Technical Manager Chemical Testing







Annexure - 10



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TEST REPORT

E 300 E		1				
1.0	Report No.:	ME-1147231114		Date: 18.11.2023		
	ULR No.	TC748723000018516F		100		
Name and Address of Customer	Plot No. B Center, Po			169725		
Sample Description/Type	Ambient N	oise				
Date of Sampling	13.11.2023	3				
Sampling Procedure	CPCB Prof	tocol for Ambient level Noise Mo	nitoring 2015			
10 12			- 7			

Sr. No.	Location	Time in h (day)	Sound Level L _{es} dB (A) Fast Response	Sound Level Leg dB (A) Slow Response	Time in h (Night)	Sound Level L _{es} dB (A) Fast Response	Sound Level L _{eq} dB (A) Slow Response
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Noise)						
1.	Near CHP	10:25	68.3	-	23:25	62.1	12
2	Near Switch Yard	10:45	65.5		23:45	61.4	
3.	Near Reservoir	10:50	62.2		23:50	58,5	-

Area Code	Area Type	Limits in dB (A)	weighted scale
		Day Time (6:00a.m. to 10:00 p.m.)	Night Time (10:00 p.m. to 6:00 a.m.)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

END OF REPORT

Note: 1. The result listed refers only to the tested sample(s) and applicable parameter(s).

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TEST REPORT

E 7.57 E				-9.4
68.355	Report No ::	ME-1267231219		Date: 25.12.2023
m.e.	ULR No.:	TC748723000020576F		1 A M
	CHID WAR	ODA ENERGY I BUTED	CO No. 4000	169725
Name and Address of Customer	Plot No. B Center, Po	-1, Mohabala, MIDC Growth ost & Tehsil: Warora, idrapur (M.S.)	Nohabala, MIDC Growth SO Date: 10.0 Tehsil: Warora,	
Sample Description/Type	Ambient No	oise		
Date of Sampling	18.12.2023	8		
Sampling Procedure	CPCB Prot	ocol for Ambient level Noise Mo	nitoring 2015	

Sr. No.	Location	Time in h (day)	Sound Level L _{eg} dB (A) Fast Response	Sound Level Leg dB (A) Slow Response	Time in h (Night)	Sound Level Let dB (A) Fast Response	Sound Level Let dB (A) Slow Response
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Noise)						
1	Near CHP	10:30	67.5		23:30	61.2	÷
2.	Near Switch Yard	10:40	66.3	¥.	23:40	60.1	2
3.	Near Reservoir	10,55	65,2		23:55	59.4	

Area Code	Area Type	Limits in dB (A)	weighted scale
		Day Time (6:00a.m. to 10:00 p.m.)	Night Time (10:00 p.m. to 6:00 a.m.)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

END OF REPORT

Note:

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Harish Mendhi Technical Manager

Chemical Testing









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TEST REPORT

	Report No.:	t No. ME-1031240116		Date: 20.01.2024
019 2	ULR No : TC748724000000942F			121
Name and Address of Customer	Plot No. B-1 Center, Pos	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth at & Tehsil: Warora, Jrapur (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023	
Sample Description / Type	Ambient No	ise		
Date of Sampling	15.01.2024 to 16.01.2024			
Sampling Procedure	CPCB Proto	col for Ambient level Noise Mo	nitoring 2015	

Sr. No.	Location	Time in h (day)	Sound Level Leg dB (A)	Time in h (Night)	Sound Level Les dB (A)
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Noise)				
1.	Near CHP	10:30	67.5	23:10	61.2
2	Near Switch Yard	10:40	66.3	23:20	60,1
3	Near Reservoir	10:50	65.2	23:30	59.4

Area Code	Area Type	Limits in dB (A) weighted scale		
		Day Time (6:00a.m. to 10:00 p.m.)	Night Time (10:00 p.m. to 6:00 a.m.)	
A	Industrial Area	75	70	
B	Commercial Area	65	55	
C	Residential Area	55	45	
D	Silence Zone	50	40	

Note: 1. The result listed refers only to the tested sample(s) and applicable parameter(s).

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Page 1 of 1 QF/SALE/05A Issue No 03 Date 05 12 2019 Amd 04 Date 11.01.2024 Reviewed and authorised by









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TEST REPORT

Tet P	Report No.: ME	-0928240213		Date: 17.02.2024
	ULR No.: TC	748724000002695F		101
Name and Address of Customer	Plot No. B-1, M	ENERGY LIMITED. bhabala, MIDC Growth Tehsil: Warora, ur (M.S.)	SO No.: 48001 SO Date: 10.04	69725 2023
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory	
Sampling Location	Anandwan Ward	ra Sample Quantity / Packing	PM ₁₀ , Pb: Filter Paper 1 X 3 No. PM ₂₆ : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder	
Date of Sampling	12.02.2024 to 13.02.2024	Date of Receipt of Sample	13.02.2024	
Sampling Procedure	As per method n	eference		
Date of Start of Analysis	13.02.2024	Date of Completion of Analysis	16.02.2024	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/mª	8.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	µg/mª	14.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMto	µg/m³	50	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM25	µg/m³	25	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m ⁵	0.96	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
6	Lead (as Pb)	µg/m ^a	BQL (LOQ:0.02)	01	CPOB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12.2019. Amd 04 Date 18.07 2023 Reviewed and authorised by







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TEST REPORT



Report No.: ME-0928240213 ULR No.: TC748724000002695F Date: 17.02.2024

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
- 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
- 8. This report is not to be reproduced except in full, without the written approval of the laboratory.
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TEST REPORT

		1EST REPORT		- A
400.00	Report No :	ME-0929240213		Date: 17.02.2024
	ULR No :	TC748724000002696F		
Name and Address of Customer	Plot No. B- Center, Pos	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, frapur (M.S.)	SO No.: 48001 SO Date: 10.04	69725 2023
Sample Description / Type	Amblent Air	Sampling Done by	Laboratory	
Sampling Location	Temporary Township	Sample Quantity / Packing	PM ₁₀ , Pb: Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ :30 mL X 6 No. PVC Bottle NO ₂ :30 mL X 6 No. PVC Bottle CO: 2L X 3No. Gas Bladder	
Date of Sampling	12.02.2024 13.02.2024	to Date of Receipt of Sample	13.02.2024	
Sampling Procedure	As per meth	od reference		
Date of Start of Analysis	13.02.2024	Date of Completion of Analysis	16.02.2024	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð/wa	9.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	µg/m³	13.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	µg/m ³	74	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	31	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15-30
5	Carbon Monoxide (CO)	mg/m³	0.77	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
6	Lead (as Pb)	hð,w3	BQL (LOQ:0.02)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

END OF REPORT

Page 1 of 2 QF/SALE/03 Issue No 03 Date 05.12.2019. Amd 04 Date 18.07.2023 Reviewed and authorised by







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TEST REPORT



Report No.: ME-0929240213 ULR No.: TC748724000002696F Date: 17.02.2024

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PMio, PM25, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

12.50	Report No.:	ME-0927240213	ME-0927240213	
	ULR No.:	TC748724000002694F		-12
Name and Address of Customer	Plot No. B- Center, Pos	Mohahala MIDC Crowth		0169725 4,2023
Sample Description / Type	Ambient Noi	se		
Date of Sampling	12.02.2024			
Sampling Procedure	CPCB Proto	col for Ambient level Noise Mo	nitoring 2015	

Sr. No.	Location	Time in h (day)	Sound Level Leg dB (A)	Time in h (Night)	Sound Level L _{eq} dB (A)
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Noise)				
1.	Near CHP	10:45	65.2	23:25	59.4
2.	Near Switch Yard	10:55	68.1	23:35	62.3
3.	Near Reservoir	11:05	66.5	23:45	63.2

Area Code	Area Type	Limits in dB (A) weighted scale			
		Day Time (6:00a.m. to 10:00 p.m.)	Night Time (10:00 p.m. to 6:00 a.m.)		
A	Industrial Area	75	70		
B	Commercial Area	65	55		
C	Residential Area	55	45		
D	Silence Zone	50	40		

Note:

1. The result listed refers only to the tested sample(s) and applicable parameter(s).

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Harish Mendhi Technical Manager Chemical Testing



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TEST REPORT

Report No.		ME-0666240209	Date: 13.02.2024		
面影开放	ULR No.	TC748724000002457F		1631	
Name and Address of Customer	Plot No. B-1 Center, Pos	DRA ENERGY LIMITED. I, Mohabala, MIDC Growth It & Tehsil: Warora, Irapur (M.S.)	Second Se	169725	
Sample Description / Type	Fugitive Emission	Sampling Done by	Laboratory		
Sampling Location	Near Crushe House	er Sample Quantity / Packing	PM ₁₀ : Filter Paper 1 X 1 No. Cyclone Cup: 1 X 1 No.		
Date of Sampling	08.02.2024	Date of Receipt of Sample 09.02 2024			
Sampling Procedure	As per meth	od reference			
Date of Start of Analysis	10.02.2024	Date of Completion of Analysis	10.02.2024		

Sr. No.	Parameter	Unit	Result	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Fugitive Emission)			
1	Suspended Particulate Matter (SPM)	hð,w _a	888	IS 5182 (Part 4):1999

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. TWA: Time Weighted Average.
- 4. Duration of Sampling: 8h
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
- 6. This report is not to be reproduced except in full, without the written approval of the laboratory.
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TEST REPORT

Lair Killar				24
44322	Report No.: ME	-0667240209		Date: 13.02.2024
De 97	ULR No : TC	748724000002458F		15Pd
Name and Address of Customer		T STATE BUILDER CONTRACTOR AND A STATE OF		169725 2023
Sample Description / Type	Fugitive Emission	Sampling Done by	Laboratory	
Sampling Location	In Between Ash Silo & Ash Pond Area	Sample Quantity / Packing	PM ₁₀ : Filter Pape Cyclone Cup: 1.2	
Date of Sampling	08.02,2024	Date of Receipt of Sample	09.02.2024	
Sampling Procedure	As per method re	eference		
Date of Start of Analysis	10.02.2024	Date of Completion of Analysis	10.02.2024	

Sr. No.	Parameter	Unit	Result	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Fugitive Emission)			
1	Suspended Particulate Matter (SPM)	hð _i w _a	1772	IS 5182 (Part 4):1999

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. TWA: Time Weighted Average.
- 4. Duration of Sampling: 8h
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

		Report No.;	ME-0668240209		Date: 13.02.2024	
		ULR No.:	TC748724000002459F		164	
1.4	Name and Address of Customer	Plot No. B Center, Po	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, drapur (M.S.)	The second se	169725	
	Sample Description / Type	ample Fugitive Sam		bling Done by Laboratory		
	Sampling Location	Near Wago Tippler	n Sample Quantity / Packing	PMto: Filter Pap Cyclone Cup: 1		
	Date of Sampling	08.02.2024	Date of Receipt of Sample	09.02.2024		
	Sampling Procedure	As per met	hod reference			
	Date of Start of Analysis	10.02.2024	Date of Completion of Analysis	10.02.2024		

Sr. No.	Parameter	Unit	Result	Method Reference	
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Fugitive Emission)				
1	Suspended Particulate Matter (SPM)	µg/m³	973	IS 5182 (Part 4):1999	

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. TWA: Time Weighted Average.
- 4. Duration of Sampling: 6h
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

	Report No. N	E-0669240209		Date: 13.02.2024
面包犯	ULR No T	C748724000002460F		
Name and Address of Customer	Plot No. B-1,	A ENERGY LIMITED. Mohabala, MIDC Growth & Tehsil: Warora, apur (M.S.)	I STORE AND A STORE AND A STORE AND A	169725
Sample Description / Type	Fugitive Emission	Sampling Done by Laboratory		3
Sampling Location	Ash Pond Nea Drive House Area	r Sample Quantity / Packing	PM10: Filter Pape Cyclone Cup: 1	
Date of Sampling	08.02.2024	Date of Receipt of Sample	09.02.2024	
Sampling Procedure	As per method	reference		
Date of Start of Analysis	10.02.2024	Date of Completion of Analysis	10.02.2024	

Sr. No.	Parameter	Unit	Result	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Fugitive Emission)			
1	Suspended Particulate Matter (SPM)	hð/ш ₂	1196	IS 5182 (Part 4) 1999

END OF REPORT

Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification.
- 3. TWA: Time Weighted Average.
- 4. Duration of Sampling: 8h
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

· The States		Report No !!	ME-12	08240216		Date 21.02.2024		
		ULR No :	2			57		
	Name and Address of Customer Dist: Chandra		-1, Moha st & Tel	bala, MID Isil: Waro	C Growth	SO No.: 4800169725 SO Date: 10.04.2023		
and the second s	ample Workplace Air escription / Type		Air	Sampling Done by		Laboratory		
Sam	Sampling Location CHP Transfor House			mer Sample Quantity / Packing		Filter Paper 1 >	(1 No.	
Date	of Sampling	15.02.2024		Date of Receipt of Sample		16.02.2024		
Sam	pling Procedure	NIOSH 050	00					
		17.02,2024	4 Date o Analys		ompletion of	17.02.2024		
Sr. No.				Unit	Result	Method Reference		
1	Total Dust		mg/n		3.9	NIOSH 0500		

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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2. LOQ: Limit of Quantification.

3. TWA: Time Weighted Average

4. Duration of Sampling: 1 h

- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
- 6. This report is not to be reproduced except in full, without the written approval of the laboratory.
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Harish Mendhi Technical Manager Chemical Testing



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TEST REPORT

	Report No		ME-1209	240216	5		Date: 21.02.2024
<u>آ</u>	E.	ULR No.:				101	
1.1.1.1.1.1.1.1	Name and Address of Customer Dist: Chandre		-1, Mohaba st & Tehs	ala, MIC il: Waro	C Growth	SO No.: 4800169725 SO Date: 10.04.2023	
	ample Workplace Air escription / Type		Air Si	Sampling Done by		Laboratory	
		CHP Penth		Use Sample Quantity / Packing		Filter Paper 1 X 1 No.	
Date	of Sampling	15.02.2024	1.0	Date of Receipt of Sample		16.02.2024	
Sam	pling Procedure	NIOSH 050	00				
Date of 17.02.2024 Start of Analysis			ate of C natysis	ompletion of	17.02.2024		
Sr. No.	Parameter		U	nit	Result	Method Reference	
1	Total Dust		mg	/m²	2.3	NIOSH 0500	

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

2. LOQ: Limit of Quantification.

3. TWA: Time Weighted Average

4. Duration of Sampling: 1 h

The result listed refers only to the tested sample(s) and applicable parameter(s).

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Harish Mendhi Technical Manager Chemical Testing



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TEST REPORT

724		Report No.:	ME-1210240	216		Date: 21.02.2024	
Ō,		ULR No .:	-		_	1.12	
10 P.CUUS	e and ess of Customer	Plot No. B- Center, Po	ORA ENERGY 1, Mohabala, I st & Tehsil: W drapur (M.S.)	MIDC Growth		0169725	
	ample Workplace Air escription / Type		Air Sampl	ir Sampling Done by		Laboratory	
Sampling Location		CHP Crush House		e ity / Packing	Filter Paper 1 X 1 No.		
Date	of Sampling	15.02.2024	Date of Receipt of Sample		16.02.2024		
Sam	pling Procedure	NIOSH 050	0				
Date Start	of of Analysis	17.02.2024	Date o Analys	of Completion of	17.02.2024		
Sr. No.			Unit	Result	Mathod Reference		
1	Total Dust		mg/m³	mg/m ^a 3.1 NIOS			
			END	F REPORT			

Note: 1. BQL: Below Quantification Limit.

2. LOQ: Limit of Quantification.

3. TWA: Time Weighted Average

Duration of Sampling: 1 h

The result listed refers only to the tested sample(s) and applicable parameter(s).

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TEST REPORT

ERANE					The state of the second	
Letter a	Report No.:	ME-121124021	3		Date: 21.02.2024	
in the second	ULR No :	•			101	
Name and Address of Customer	Plot No. B- Center, Po	ORA ENERGY LI 1, Mohabala, Mil st & Tehsil: Ward drapur (M.S.)	C Growth		0169725 4.2023	
Sample Description / Type	(1) (5) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2		Air Sampling Done by		Laboratory	
Sampling Location CHP Bunker		10000000000000000000000000000000000000	r Sample Quantity / Packing		(1 No.	
Date of Sampling	15.02.2024	Date of R Sample	eceipt of	16.02.2024		
Sampling Procedure	NIOSH 050	00				
Date of 17.02.2024 Start of Analysis		The second		17.02.2024		
Sr. Parameter No.		Unit	Result	Method Reference		
1 Total Dust			2.9	NIOSH 0500		

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

2. LOQ: Limit of Quantification.

3. TWA: Time Weighted Average

4. Duration of Sampling: 1 h

5. The result listed refers only to the tested sample(s) and applicable parameter(s).

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TEST REPORT

L 199	Simi						the second second
al		Report No :	ME-1	212240216		Date 21.02.2024	
٥?s	ULR No						1.5.8
Name Addre	and ss of Customer	GMR WAR Plot No. B- Center, Po Dist: Chan	1, Moh st & Te	abala, MID hsil: Waro	C Growth		169725
Samp Descr	le iption / Type	Workplace	Air	Sampling Done by		Laboratory	
Samp	ling Location	AHP/Fly Si	lo Area	Area Sample Quantity / Packing		Filter Paper 1 X	1 No.
Date d	of Sampling	15.02 2024	Date of Receipt of Sample		16.02.2024		
Samp	ling Procedure	NIOSH 050	00				
Date of 17.02.2024 Start of Analysis			Date of Completion of Analysis		17.02.2024		
Sr. No.	Parameter			Unit	Result	Method Reference	
1	Total Dust		1	mg/m ³	4.1	NIDSH 0500	

END OF REPORT

Note: 8. BQL: Below Quantification Limit.

9. LOQ: Limit of Quantification.

10 TWA: Time Weighted Average

11. Duration of Sampling: 1 h

12. The result listed refers only to the tested sample(s) and applicable parameter(s).

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Page 1of 1 OF/SALE/03 Issue No 03 Date 05.12 2019. Amd 04 Date 18.07 2023 Reviewed and authorised by

Harish Mendhi Technical Manager Chemical Testing



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TEST REPORT

			000000000000000000000000000000000000000
225 E	Report No.	ME-0446240207	Date: 13.02.2024
	ULR No	TC748724000002255F	51
Name and Address of Customer	Plot No. B- Center, Por	ORA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, drapur (M.S.)	SO No.: 4800169725 SO Date: 10.04.2023
Sample Description / Type	Domestic Effluent	Sampling Done by	Laboratory
Sampling Location	STP Inlet	Sample Quantity / Packing	2 L X 1 No. PVC Can 100 mL X 1 No. PVC Can 1 L X 1 No. Glass Bottle
Date of Sampling	06.02.2024	Date of Receipt of Sample	07.02.2024
Sampling Procedure	IS:3025(Pa	rt I); APHA 24 th Ed, 2023, 1060-B	
Date of Start of Analysis	07.02 2024	Date of Completion of Analysis	12.02.2024

Sr. No.	Parameter	Unit	Result	Method Reference
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)			
1	pH	100 C	7.4	APHA 24* Ed. 2023, 4500-H*- B
2	Total Dissolved Solids	mg/L	990	IS 3025 (Part 16):2023
3	Total Suspended Solids	mg/L	23	APHA 24* Ed. 2023, 2540-D
4.	Biochemical Oxygen Demand (3days 27°C)	mg/L	12	IS 3025 (Part 44) 2023
5,	Chemical Oxygen Demand	mg/L	36	APHA 24# Ed. 2023, 5220-8
6.	Oil and Grease	mg/L	BQL (LOQ:2)	APHA 24= Ed. 2023, 2320-8

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
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TEST REPORT

464.3	Report No.:	ME-0447240207		Date: 13.02.2024
	ULR No.	TC748724000002256F		151
Name and Address of Customer	Plot No. B-1	RA ENERGY LIMITED. , Mohabala, MIDC Growth t & Tehsil: Warora, rapur (M.S.)	(CONTRACT) (CONTRACT)	169725 2023
Sample Description / Type	Domestic Effluent	Sampling Done by	Laboratory	
Sampling Location	STP Outlet	Sample Quantity / Packing	2 L X 1 No. PVC 100 mL X 1 No. 1 L X 1 No. Glas	PVC Can
Date of Sampling	06.02.2024	Date of Receipt of Sample	07.02.2024	
Sampling Procedure	IS:3025(Part	I); APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	07.02.2024	Date of Completion of Analysis	12.02.2024	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing: Product Group: Pollution & Environment (Waste Water)				
1.	pН	(#)	7:5	F	APHA 24# Ed. 2023, 4500-H B
2.	Total Dissolved Solids	mg/L	782	E.	IS 3025 (Part 16):2023
3	Total Suspended Solids	mg/L	BQL (LOQ:5)	50 Max	APHA 24* Ed. 2023, 2540-D
4.	Biochemical Oxygen Demand (3days 27°C)	mg/L	7.0	30 Max	IS 3025 (Part 44) 2023
5,	Chemical Oxygen Demand	mg/L	24	100 Max.	APHA 24# Ed. 2023, 5220-B
6,	Oil and Grease	mg/L	BOL (LOO:2)		APHA 24= Ed. 2023, 2320-B
7	Calcium (as Ca)	mg/L	86.6	(4)	APHA 24* Ed. 2023, 3500-Ca-B
8	Magnesium (as Mg)	mg/L	42.8		APHA 24th Ed. 2023, 3500-Mg- B
9,	Sodium (as Na)	mg/L	129	ê	APHA 24th Ed. 2023, 3500-Na-B

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
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TEST REPORT

23382	Report No.: N	/E-0448240207		Date: 13.02 2024
DUL.	ULR No : T	C748724000002257F		
Name and Address of Customer		Contraction of the Contraction o	Strate Carlo State and Strategy Strategy	0169725 4.2023
Sample Description / Type	Industrial Effluer	t Sampling Done by	Laboratory	
Sampling Location	D.M. Plant Effluent	Sample Quantity / Packing	2 L X 1 No. PVC Can 100mL X 1 No. PVC Can 1L X 1 No. Glass Bottle	
Date of Sampling	06.02.2024	Date of Receipt of Sample	07.02.2024	
Sampling Procedure	IS:3025(Part I); /	APHA 24" Ed. 2023, 1060-E	3	
Date of Start of Analysis	07.02 2024	Date of Completion of Analysis	12.02.2024	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing: Product Group: Pollution & Environment (Waste Water)				
1.	pH	*	7.9	5.5-9.0	APHA 24th Ed. 2023, 4500-Hr-B
2	Total Dissolved Solids	mg/L	705	2100 Max.	IS 3025 (Part 16): 2023
3,	Total Suspended Solids	mg/L	6	100 Max.	APHA 24th Ed. 2023, 2540-D
4.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	6.0	30 Max	IS 3025 (Part 44): 2023
5.	Chemical Oxygen Demand	mg/L	24	250 Max	APHA 24th Ed. 2023, 5220-B, 5-18
6	Oil and Grease	mg/L	BQL (LOQ:2)	10 Max	IS 3025 (Part 39): 2021

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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TEST REPORT

4644	Report No.:	ME-0449240207		Date: 13.02.2024
07333	ULR No :	TC748724000002258F		201
Name and Address of Customer	Plot No. B-1, M	A ENERGY LIMITED. Nohabala, MIDC Growth & Tehsil: Warora, pur (M.S.)	Card Without Constants	169725
Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory	1
Sampling Location	Cooling Tower Blow Down	Sample Quantity / Packing	1 L X 1 No. PVC 500mL X 1 No. F	the second se
Date of Sampling	06.02.2024	Date of Receipt of Sample	07.02.2024	
Sampling Procedure	IS:3025(Part I)	APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	07.02.2024	Date of Completion of Analysis	12.02.2024	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing: Product Group: Pollution & Environment (Waste Water)				
ŧ.,	Free Available Chlorine	/mg/L	BQL (LOQ:0.05)	0,5 Max.	APHA 24* Ed. 2023, 4500-CI- G
2	Phosphate Total (as P)	mg/L	0.785	5.0 Max	APHA 24h Ed. 2023, 4500-P. E.
3.	Total Chromium (as Cr)	mg/L	BQL (LOQ:0.01)	0.2 Max	IS 3025 (Part 2) 2019
4.	Zinc (as Zn)	ma/L	0.074	1.0 Max.	IS 3025 (Part 2) 2019

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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TEST REPORT

200	Report No :	ME-0450240207		Date: 13 02.2024
自然感	ULR No.	TC748724000002259F		221
Name and Address of Customer	Plot No. B-1, I	A ENERGY LIMITED. Mohabala, MIDC Growth & Tehsil: Warora, pur (M.S.)	SO No.: 4800 SO Date: 10.04	169725 1.2023
Sample Description / Type	Industrial Effluent	Sampling Done by	Laboratory	1
Sampling Location	Condenser Cooling Water	Sample Quantity / Packing	1 L X 1 No. PVC	Can
Date of Sampling	06.02.2024	Date of Receipt of Sample	07.02.2024	
Sampling Procedure	IS:3025(Part I)	APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	07.02.2024	Date of Completion of Analysis	12.02 2024	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)				
1 .	Temperature	°C	29	Not to exceed 5% higher than the intake water	APHA 24th Ed. 2023, 2550-B
2.	pH	10	7.6	65 to 85	APHA 24th Ed. 2023, 4500-H+-B
3.	Free Available Chlorine	mg/L	BQL (LOQ:0.05)	0.5 Max.	APHA 24th Ed. 2023, 4500-CI G

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
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TEST REPORT

22520 A	Report No.:	ME-0451240207		Date 13 02 2024
	ULR No :	TC748724000002260F		1551
Name and Address of Customer	Plot No. B-1, I	A ENERGY LIMITED. Mohabala, MIDC Growth L Tehsil: Warora, pur (M.S.)		0169725 4.2023
Sample Description / Type	Industrial Efflue	ent Sampling Done by	Laboratory	1
Sampling Location	Boller Blow Do	wn Sample Quantity / Packing	1 L X 1 No. PV0 500mL X 1 No. 1 L X 1 No. Gla	PVC Can
Date of Sampling	06.02.2024	Date of Receipt of Sample	07.02.2024	
Sampling Procedure	IS:3025(Part I)	APHA 24th Ed. 2023, 1060-E	3	
Date of Start of Analysis	07.02.2024	Date of Completion of Analysis	12 02 2024	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing: Product Group: Pollution & Environment (Waste Water)				
1,	Total Suspended Solids	mg/L	5	100 Max	AFHA 24* Ed. 2023, 2540-D
2.	Oil and Grease	mg/L	BQL(LOQ 2)	10 Max	IS 3025 (Part 39): 2021
3,	Copper (as Cu)	mg/L	BQL(LOQ:0.01)	1.0 M≥x.	IS 3025 (Part 2) 2019
4.	Iron (as Fe)	mg/L	BQL(LOQ:0.03)	1.0 Max.	IS 3025 (Part 2) 2019

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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BUKE

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TEST REPORT

10.15	Report No.:	ME-0452240207		Date: 13.02.2024		
	ULR No :	TC748724000002261F				
Name and Address of Customer	Plot No. B-1,	RA ENERGY LIMITED. Mohabala, MIDC Growth & Tehsil: Warora, apur (M.S.)		169725		
Sample Description / Type	Industrial Effluent	Sampling Done by	Sampling Done by Laboratory			
Sampling Location	Ash Pond Effluent	Sample Quantity / Packing	1 L X 1 No. PVC Can 1 L X 1 No. Glass Bottle			
Date of Sampling	06.02.2024	Date of Receipt of Sample	07.02.2024			
Sampling Procedure	IS:3025(Part I	I); APHA 24th Ed. 2023, 1060-B				
Date of Start of Analysis	Concernation and the second of the second se					

Sr. No.	Parameter	Unit	Result	Method Reference		
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)					
1.	pH	32	7.3	APHA 24" Ed. 2023, 4500-H+-8		
2	Total Suspended Solids	mg/L	189	APHA 24P Ed. 2023, 2540-D		
З,	Oil and Grease	mg/L	BQL(LOQ:2)	(\$ 3025 (Part 39): 2021		

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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TEST REPORT

tet in	Report No.: ME-0808240312			Date: 16.03.2024		
	ULR No	TC748724000004421F		1854		
Name and Address of Customer	Plot No. B-1 Center, Pos	DRA ENERGY LIMITED. 1, Mohabala, MIDC Growth st & Tehsil: Warora, frapur (M.S.)	SO No: 4800169725 SO Date: 10.04.2023			
Sample Description / Type	Ambient Noi	ise				
Date of Sampling	11.03.2024	11.03.2024				
Sampling Procedure	CPCB Proto	col for Ambient level Noise Mo	nitoring 2015			

Sr. No.	Location	Time in h (day)	Sound Level Leg dB (A)	Time in h (Night)	Sound Level Let dB (A)
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Noise)				
1	Near CHP	10.55	66.3	23:35	61.1
2.	Near Switch Yard	11:05	67.2	23:45	60.4
3	Near Reservoir	11:15	65.5	23:55	62.3

Area Code	Area Type	Limits in dB (A) weighted scale					
1		Day Time (6:00a.m. to 10:00 p.m.)	Night Time (10:00 p.m. to 6:00 a.m.)				
A	Industrial Area	75	70				
B	Commercial Area	65	55				
C	Residential Area	55	45				
D	Silence Zone	50	40				

Note: 1. The result listed refers only to the tested sample(s) and applicable parameter(s).

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GMR Group



www.gmrgroup.in

Project Name: Vermicomposting of Horticulture Waste

Bird view of gwel green belt





Humility | Entrepreneurship | Teamwork & Respect for Individual | Deliver the Promise | Learning & Inner Excellence | Social Responsibility | Financial Prudence - Frugality

Green (horticulture) waste generation through maintenance of green



Huminty | Entrepreneurship | Teamwork & Respect for Individual | Deliver the Promise | Learning & Inner Excellence | Social Responsibility | Financial Prudence - Frugality

Vermicomposting process flow





Process flow - vermicompost unit





Green (Horticulture) Shredder through Organic Shredder



Erection of Vermi Bed



Layer wise distribution of Green & food Waste & FYM



Maintained Moisture before application of Vermi



Collection of Vermi - Wash (Organic Pesticide)



Insert Vermi on Vermi Bed



Vermi Bed ready for Composting Process

Site photographs (after implementation)





Erection of Vermicomposting Bed

Nomenclature to Each Vermi - Bed



Fencing Entire Vermicomposting Area

Site View of Vermicomposting Unit

Life cycle of Green Waste (circular economy approach)





Humility | Entrepreneurship | Teamwork & Respect for Individual | Deliver the Promise | Learning & Inner Excellence | Social Responsibility | Financial Prudence - Frugality



SIX MONTHLY EC COMPLIANCE REPORT SUBMISSION FOR THE PERIOD OCTOBER 2023 – MARCH 2024

परिवेश PARI√I ICPC GREE	ি पर्यावरण, बल और जलवायु परिवर्तन नंत्रा ESH Ministry of Environment, Fore							LIFE Invironment	ग ्रि आज़ादी _क अमृत महोत्सव	
Dashboard	Environment Clearance 🝷	Forest Clearance 🝷	Wildlife Clearance 🝷	CRZ Clearan	e • 0	Go To Home	Logout	Welcom	ne Pramod Khar	ndelwal, Project Proponent
		Your (Environn	nent Clearance) applic	ation has bee	n Subn	mitted with f	ollowing det	ails		
Proposal No					/MOEF/	/230				
Compliance ID				325396	50					
Compliance Number(For Tracking)				EC/M/C	EC/M/COMPLIANCE/32539650/2024					
Reporting Year				2024	2024					
Reporting Period				01 Jun(01 Jun(01 Oct - 31 Mar)					
Submission Date				21-05-2	21-05-2024					
IRO Name			V Gero	V Geroge Jenner						
IRO Email			tr025@	tr025@ifs.nic.in						
State			MAHAR	MAHARASHTRA						
IRO Office Address				Integra	ed Regi	ional Offices, N	Nagpur			
Note:- SMS and E-Mail has been sent to V Geroge Jenner, MAHARASHTRA with Notification to Project Proponent.										