



Power

Ref: APL/MEL/EMD/EC/MoEFCC/233/11/24

Date- 29.11.2024.

To,

**The Additional Principal Chief Conservator of Forest
Ministry of Environment, Forest and Climate Change**

Integrated Regional Office, Bhopal

Kendriya Paryavaran Bhavan,

Link Road No- 3, E-5, Ravi Shankar Nagar

Bhopal - 462 016 (M.P)

Sub: Six Monthly Compliance Status of Environment Clearances of Residential Township for Mahan Thermal Power Plant at Village Bandhaura, District Singrauli, Madhya Pradesh.

Ref: Environmental clearance Identification no. EC24B038MP194263 and File no. 10627/2023 dated- 29.01.2024.

Dear Sir,

With reference to the above subject, please find enclosed herewith Six-monthly Environment Clearances (EC) compliance status report of **Residential Township of Mahan Energen Ltd.** for the period of **April'2024 to September'2024** in soft (e-mail).

This is for your kind information & record please.

Thanking You,

Yours faithfully,

for **Mahan Energen Ltd.**

(R N Shukla)

Head Environment & Forest

Encl: as above

CC:

Member Secretary

Central Pollution Control Board

Parivesh Bhavan, East Arjun Nagar

Kendriya Paryavaran Bhawan

New Delhi- 110 032.

The Regional Officer

Madhya Pradesh Pollution Control Board

Bhakuar, Navgarh, Singrauli, MP-486887

Member Secretary,

Madhya Pradesh Pollution Control Board

Paryavaran Parisar, E-5, Arera Colony,

Bhopal, MP

State Environment Impact Assessment

Authority (SEIAA),

Bhopal, Madhya Pradesh

Mahan Energen Limited

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**SIX MONTHLY COMPLIANCE REPORT
OF
ENVIRONMENTAL CLEARANCE (EC)**

**For
Residential Township for Bandhaura Thermal
Power Plant**

**At
Village Karsualal, Tehsil Mada,
District Singrauli, Madhya Pradesh**

Submitted to:

**Integrated Regional Office, Bhopal
Ministry of Environment & Forest & Climate Change
Central Pollution Control Board, New Delhi
State Level Environment Impact Assessment Authority
Madhya Pradesh Pollution Control Board, Bhopal**



Submitted By:

**Environment Management Department
Mahan Energen Limited**

**Bandhaura Village, Mada Tehsil, Singrauli
District, Madhya Pradesh-486 886**

Period: April'2024 to September'2024

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Mahan Energen Limited

Introduction:

Mahan Energen Limited is wholly owned subsidiary of **Adani Power Limited** is Coal based Thermal Power Plant situated at Village Bandhaura, Khairahi, Karsualal and Nagwa in Singrauli District of Madhya Pradesh. The Plant has total capacity of 2800 MW (Phase I 2x600 MW Operational and Phase II 2x800 MW Under Construction).

Environment Clearance (EC) granted for **Residential Township** for Bandhaura Thermal Power Plant by State Level Environment Impact Assessment Authority (SEIAA), Madhya Pradesh Vide file No. 10627/2023, EC Identification: EC 24B038MP 194263 dated 29.01.2024 subsequently Consent to Establish (CTE) is granted by MPPCB vide Consent No. 59926 dated: 13.03.2024 and Construction activities is started area development.

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Compliance Status on Environmental Clearance Residential Township for Bandhaura Thermal Power Plant

Vide EC Identification no.: EC 24B038MP 194263; File No.: 10627/2023 dated:
29/01/2024

| Sl. No. | EC Conditions | Compliance Status |
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| A: Specific Conditions | | |
| 1. | In order to reduce ground water extraction, ensure that the water supply for the project is done from the water allotted to the thermal power plant by the Water Resources Department from the Rihand reservoir. | Noted & agreed |
| 2. | The project proponent should make full use of the excess wastewater treated. Discharge of contaminated water in the residential complex should be completely prohibited. In future, after inclusion in the municipal corporation area, ensure linkage with the municipal corporation sewer line for disposal of excess treated wastewater. | Noted & compliance assured during operation phase of residential Township. Generated wastewater will be treated in sewage treatment plant (STP) and treated sewage will be reused for development of green belt within the township premises. |
| 3. | Dual plumbing system must be adopted for reuse of treated effluent for flushing and other purposes. | Noted and compliance assured. Dual plumbing system shall be adopted. |
| 4. | The inert waste from the project should be sent to the dumping site and the project proponent should obtain permission for MSW from the Municipal Corporation or the concerned local body. | Noted & Compliance assured during operational phase of the residential township. |
| 5. | Ensure that the project planning and design is done as per the requirements of Madhya Pradesh Bhumi Padan Liye Mandatory Development (MPBVR) Rules, 2012. Building footprint and other parameters related to FAR, ground coverage should also be kept as per the permissible norms prescribed under (MPBVR) Rules 2012. | Noted and compliance assured under MPBVR Rules 2012. |
| 6. | In the proposed building, separate arrangements for lift and fire safety will have to be made and construction work will be started after obtaining permission from the concerned department. | Compliance Assured. Separate Lift and emergency stairs is proposed to provided. Necessary permission shall be obtained from concerned department. |
| 7. | Ensure that at least 20% of the total consumption of electrical energy for the building is compensated through non-conventional energy sources. | Compliance assured during operational phase of the Residential Township. |
| 8. | The total budget set for CER activities is Rs. 125 lakh. Ensure that it is completed within the stipulated period as per the requirement, consultation with nearby schools, hospitals/dispensaries and needy veterinarians and local authorities. | Compliance assured. The allocated budget for CER activities shall be completed within the stipulated period. |
| 9. | The environmental clearance issued by SEIAA in the case shall be subject to the orders/directions of the Hon'ble Supreme Court, Hon'ble High Court, Hon'ble NGT and other courts and compliance of all directions/decisions issued by the Hon'ble Supreme | Noted and agreed. |

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| | Court, Hon'ble High Court, Hon'ble NGT and other courts shall be binding on the project proponent. | |
| 10. | As per the official memorandum dated 19.06.23 issued by MPSEIAA, if ground water extraction is done in the project, then ensure to comply with the following instructions: | Noted and agreed. |
| a. | In cases where water is to be supplied through water tankers, the project proponent should ensure that the water requirement is met through licensed tanker water suppliers only. | Noted and agreed. |
| b. | Groundwater extraction will not be permitted without prior permission of the competent authority (CGWB/CGWA). Accordingly, a copy of the NOC for groundwater extraction shall be submitted to all regulatory authorities, namely, Authority (State Level Environmental Impact Assessment Authority), Regional Office, Ministry of Environment, Water and Climate Change, Government of India, Bhopal, Madhya Pradesh Pollution Control Board and Central Pollution Control Board. | Noted and agreed. Water requirement of residential township shall be met from the water treatment plant of Thermal Power Plant. |
| c. | The project proponent shall ensure mandatory compliance of the stipulations made in the NOC for ground water extraction and shall monitor the status six monthly and submit it as a part of the compliance report. | Not applicable. Ground water shall not be used for residential Township. |
| 11. | If the project site is in the vicinity of a water body, then the area of 50 meters from the bank of the water body to the site will not be considered as a development/construction area. If it is near a wetland, then the guidelines for implementation of Wetlands (Conservation and Management) Rules, 2017 should be followed and necessary no objection certificate should be obtained from the concerned authority. | Noted and agreed. There is no water body or wetlands within the 50 meters of projects. |
| 12. | The inlet and outlet point of natural drain system should be maintained with adequate size of channel for ensuring unrestricted flow of water. | Noted and agreed. |
| 13. | The storm water from roof - top, paved surfaces and landscaped surfaces should be properly channelized to the rain water harvesting sumps through efficient storm water network. | Noted and compliance assured. Rainwater harvesting (RWH) system for roof run-off and surface run-off has been considered in design. For roof top rainwater collection, all the water from roofs shall be collected through roof water drainage pipe and discharge into storm water drain. The storm water drainage systems shall be connected to Rain- Water Harvesting ponds for reuse |
| 14. | PP should ensure road width, front MOS and side / rear as per MPBVR 2012. | Noted and agreed. |
| 15. | The building shall be designed for compliance with earthquake resistance and resisting other natural | Noted and agreed. |

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| | hazardous. | |
| 16. | The height, Construction built up area of proposed construction A be in accordance with the existing FSI/FAR norms of the urban local body / T&CP& it should ensure the same along with survey number before approving layout plan & before according commencement certificate to proposed work. | Compliance Assured |
| 17. | Wet Garbage shall be composted in Organic waste convertor. Adequate area shall be provided for solid waste management within the premises which will include area for segregation, composting. The Inert waste from the project will be sent to dumping site. | Noted and compliance assured Organic Waste Converter installation is in progress within TPP Premises. For waste segregation, separate covered dust bins for Bio-degradable and non-biodegradable waste shall be placed in proximate to each building & other inert waste shall be disposed-off as per Municipal Wastes (Management and handling) Rules. |
| 18. | For firefighting: a. PP should ensure distance of fire station approachable from the project site. All the required firefighting arrangement should be made available on the project site as per NBC 2016. b. The occupancy permit shall be issued by Municipal Corporation only after ensuring that all firefighting measures are physically in place. c. Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises. | Compliance Assured All required facilities & approvals shall be taken prior & during the occupancy of a residential complex. |
| 19. | Provide solar lights for common amenities like Street lighting & Garden lighting. | Noted and agreed. |
| 20. | Electrical charging points for E-Vehicles shall be provided to promote clean energy. | Noted and agreed. |
| 21. | The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and /or invasive species should not be used for landscaping. | Noted and agreed. Local trees species with broad leaves and big canopy cover and shrubs are proposed for plantation along the periphery of residential complex. |
| 22. | The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA/SEAC along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose. | Noted & Compliance Assured. |
| 23 | The project proponent has to ensure that the proposed site will be developed as per layout approved by T & CP, Indore. Also, In the event of any dispute on ownership or land use of the proposed site, this clearance shall automatically deemed to | Noted & Compliance Assured. |

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| | be cancelled. | |
| B. | Specific Conditions as recommended by SEAC | |
| | I. Statutory Compliance | |
| i. | The project proponent shall obtain all necessary clearance/permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws. | Noted & Compliance Assured. All required clearances have been taken from relevant agencies. |
| ii. | The approval of the Competent Authority shall be obtained for structural safety of building due to earthquakes, adequacy of firefighting equipment etc as per National Building code including protection measures from lightening etc. | Noted & Compliance Assured. |
| iii. | The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution), 1974 from the state pollution Control Board/ Committee. | Complied Consent to Establish (CTE) has already been obtained from MPPCB vide CTE no. 59926 dated 13.03.2024 valid up to 31.09.2029 . Consent to Operate (CTO) will be obtained before operational (Occupancy) of township. |
| iv. | The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority. | Noted & Compliance Assured. |
| v. | A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained. | Noted. The residential complex is an integrated project of Bandhaura Thermal Power Station, and the required electrical power will be supplied from power plant itself. |
| vi. | All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities. | Noted & Compliance Assured |
| vii. | The provisions for the solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed. | Noted & Compliance Assured. |
| viii. | The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power Strictly. | Compliance assured |
| ix | The project area shall be secure through boundary wall and excavated topsoil shall not be used in filling of low-lying area. The topsoil shall be used for | Noted & Compliance Assured |

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| | greenery development. | |
| II | Air quality monitoring and preservation | |
| i. | Notification GSR 94(E) dated: 25/1/2018 MoEF&CC regarding Mandatory implementation of Dust Mitigation Measures for Construction and Demolition Activities for project requiring Environmental Clearance shall be complied with. | Noted & Compliance assured. |
| ii. | A management plan shall be drawn up and implemented to contain the current Exceedance in ambient air quality at the site. | Being Complied Regular basis Air Quality monitoring is being done through NABL accredited laboratory, the results shows the current ambient air quality is within permissible limits, Ambient Air Quality monitoring results as attached as Annexure – I. |
| iii. | The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released covering upwind and downwind directions during the construction period. | Being Complied NABL accredited agency already has been engaged for environmental monitoring. Ambient Air Quality monitoring results as attached as Annexure – I. |
| iv | The construction site shall be adequately barricaded before the construction begins. Dust, smoke and other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, Murram and other construction materials prone to causing dust polluting at the site as well as taking out debris from the site. | Noted & Compliance Assured |
| v. | Sand, Murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution. | Noted & Compliance Assured All construction materials are properly stacked & covered to prevent dust pollution. |
| vi. | Wet jet shall be provided for grinding and stone cutting. | Noted & Compliance Assured |
| vii. | Unpaved surface and loose soil shall be adequately sprinkled with water to suppress dust. | Noted & Compliance Assured |
| viii. | All construction and demolition debris shall be stored at the site (are not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016 | Noted |
| ix. | The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) | Noted & Compliance Assured Only low Sulphur diesel (LDO) will be used, if required. |

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| | prescribed for air and noise omission standards | |
| x. | For indoor air quality the ventilation provisions as per National Building Code of India. | Noted & Compliance Assured |
| III | Water quality monitoring and preservation. | |
| i. | The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rainwater. | Noted & Compliance Assured |
| ii. | Buildings shall be designed to follow the natural topography as much as possible, minimum cutting and filling should be done. | Noted & Compliance Assured |
| iii. | The total water requirement during operation phase is 237.50 KLD out of which 120.50 KLD is freshwater requirement and 117 KLD will be the total recycled water generated, out of which 51 KLD recycled water will be used for flushing and 66 KLD water will be used for horticulture. | Noted & Compliance Assured during operation phase. |
| iv. | The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoFF&CC along with SIX monthly Monitoring reports. | Noted & Compliance Assured during operation phase. |
| v. | A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for separately for ground water and surface water sources, ensuring that there is no impact on other users. | Noted & Compliance Assured The required quantity of water for residential complex will be supplied from water treatment plant of Power Plant. |
| vi. | At least 20% of the open spaces as required by the local building bye-laws shall be previous. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as previous surface at least 50% . | Noted & Compliance Assured |
| vii. | Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc. and other for supply of recycled water flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done. | Noted & Compliance Assured. |
| viii. | Use of water saving devices/fixtures (Viz. low flow flushing systems; use of low flow faucets tap aerators etc.) for water conservation shall be incorporated in the building plan. | Noted Low flow fixtures will be provided |

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| ix. | Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.) | Noted |
| x. | Water demand during construction should be reduced by use of pre-mixed concrete. curing agents and other best practices referred | Noted |
| xi. | The local bye-law construction on rainwater harvesting should be followed. If local by-law provision is not available, adequate provisions for storage and recharge should be followed as per the Ministry of Urban Development Model Building by laws, 2016. Rainwater harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms. | Noted & Compliance Assured |
| xii. | A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meter of built up area and storage capacity of minimum one day of total fires water requirement shall be provided. In areas where ground water recharge is not feasible, the rainwater should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority. | Noted & Compliance Assured |
| xiii. | Rainwater storage pond having an area of 1200 sq. m and effective volume of 45779.03 cu. m. will be constructed and the stored rainwater will be reused for horticulture purposes. | Roof top rainwater harvesting is proposed. Recharge pits for deep and shallow depth is planned for project to conserve maximum runoff from site Excess rainwater from project area will be diverted to Rainwater Harvesting Pond at designated place for reuse. Harvested rainwater shall be used for horticulture purposes. |
| xiv. | The RWH will be initially done only from the roof top. Runoff from green and other open areas will be done only after permission from CGWB. | Noted |
| xv. | All recharges should be limited to shallow aquifer. | Noted |
| xvi. | No ground water shall be used during construction phase of the project. | Noted & Compliance assured No ground water shall be extracted for the residential complex. Water will be used form TPP. |
| xvii. | Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering. | Noted & Compliance assured No ground water shall be extracted for residential complex. |
| xviii. | The quality of freshwater usage, water recycling and rainwater harvesting shall be measured and | Noted & Compliance Assured |

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| | recorded to monitor the water balance as projected by the project proponent. The recorded shall be submitted to the Regional Office, MOEF& CC along with six monthly Monitoring report. | |
| xix. | Sewage shall be treated in the MBBR based STP (Capacity 160 KLD). The treated effluent from STP shall be recycled/re-used for flushing. As proposed, no treated water shall be disposed into municipal drain | Noted & Compliance Assured STP will be installed with adequate capacity and treated water will be recycled/re-used for flushing and greenbelt development. |
| xx. | The wastewater generated from the project shall be treated in STP of 160 KLD capacity (based on MBBR based technology) and then reused for various purposes. No water body or drainage channels are getting affected in the study area because of this project. | Noted & Compliance Assured STP will be installed with adequate capacity and treated water will be recycled/re-used for flushing and greenbelt development. |
| xxi. | No sewage or untreated effluent water would be discharged through storm water drains. | Noted & Compliance Assured |
| xxii. | Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problems from STP. | Noted & Compliance Assured |
| xxiii. | Sludge from the onsite sewage treatment including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Control Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013. | Noted & Compliance Assured |
| IV | Noise monitoring and prevention | |
| i. | Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitoring during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/SPCB. | Being Complied Noise monitoring report enclosed as Annexure I |
| ii. | Noise level survey shall be carried as per the prescribed guidelines, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report. | Being Complied On Regular basis Noise Level is being monitored through NABL accredited laboratory, the results shows the current ambient air noise is within permissible limits, monitoring results as attached as Annexure - I. |

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| iii. | Acoustic enclosures for DG sets, noise barriers for ground run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources. | Being Complied Only acoustic enclosures fitted DG sets are using at site , ear plus & ear muffs is being used by construction workers while working. |
| V | Energy Conservation measures | |
| i. | The PP shall ensure power generation from non-conventional sources i.e. solar power etc. to achieve 30% of the total power consumption | Noted |
| ii. | Looking to the use of e-vehicles atleast three battery charging points per towers i.e. 06 point in the projects shall be provided | Noted |
| iii. | Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured, building in the State which have notified their own ECBC, shall comply with the State ECBC. | Noted and compliance assured, Uses of glass will be less than 40%. |
| iv. | Outdoor and common area lighting shall be LED. | Noted |
| v. | Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications | Noted |
| vi. | Energy Conservation measures like installation of CFIS/LED's for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. | Compliance Assured |
| vii. | Solar, wind or other renewable energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level /local building bye-laws requirement, which is higher. | Compliance Assured |
| viii. | Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible. | Compliance Assured |
| VI | Waste Management | |
| i. | Total waste 445 Kg/day, this consist all types of wastes (as Organic waste 267 Kg/day and non- | Biodegradable waste will be composted at designated place within the plant premises |

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| | organic waste 178 Kg/day and these all type of waste shall be treated/ disposed off as per provision made in the MSW Rules 2016. | through Organic Waste Converter (OWC). Non-biodegradable waste shall be disposed off as per the MSW Rule 2016. |
| ii. | A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the MSW generated from project shall be obtained | Compliance Assured. Request letter has been submitted to Municipal Corporation- Singrauli' for issuance of NOC for the disposal of Municipal Solid Waste generated from our Proposed Residential Township. The copy of the request letter is attached as Annexure- II. |
| iii. | Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority. | Noted & Compliance assured during construction. |
| iv. | Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste (0.4 ton/day) shall be segregated into wet garbage and inert materials. | Biodegradable waste will be composted at designated place within the plant premises through Organic Waste Converter (OWC). For waste segregation, separate covered dust bins for Bio-degradable and non-biodegradable waste shall be placed in proximate to each building & other inert waste shall be disposed-off as per Municipal Wastes (Management and handling) Rules. |
| v. | All non-biodegradable waste shall be handed over the authorized recyclers for which a written lie up must be done with the authorized recyclers. | Noted & Compliance Assured. |
| vi. | Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control board. | Noted & Compliance Assured. |
| vii. | Use of environmentally friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction materials quantity. These include fly ash brick, hollow bricks, AACs, Fly Ash Lime Gypsum block, compressed earth blocks and other environmentally friendly materials | Compliance assured. It is proposed to use ash-based bricks for construction purpose. |
| viii. | Fly ash should be used as building material in construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27th August, 2003 and 25th January, 2016 Ready mixed concrete must be used in building construction. | Noted & Being Complied |
| ix. | Any wastes from construction and demolition activities related thereto shall be managed so as to | Noted & Compliance Assured |

Mahan Energen Limited

| | strictly conform to the construction and Demolition Rules, 2016 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| x. | Used CFLs and TFLS should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. | Noted & Compliance Assured | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VII | Green Cover | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I | Total 3000 trees shall be planted in the area of 29049.35 Sq. m. (31.93% of total plot area) which is developed as greenbelt development as follows: | Compliance assured The respective species are already included in the list of plant species recommended by the local forest department for project area. Three tier plantation/ greenbelt all along the periphery of residential area is proposed. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Scientific Name</th> <th>Common Name</th> </tr> </thead> <tbody> <tr> <td></td> <td colspan="2">Trees</td> </tr> <tr> <td>1.</td> <td>Peltophorum pterocarpum</td> <td>Yellow Gulmohar</td> </tr> <tr> <td>2.</td> <td>Azadirachta indica</td> <td>Neem</td> </tr> <tr> <td>3.</td> <td>Madhuca longifolia</td> <td>Mahua</td> </tr> <tr> <td>4.</td> <td>Putranjiva roxburghii</td> <td>Putranjiva</td> </tr> <tr> <td>5.</td> <td>Ficus benjamina</td> <td>Ficus</td> </tr> <tr> <td>6.</td> <td>Millettia pinnata</td> <td>Karanj</td> </tr> <tr> <td>7.</td> <td>Albizia saman</td> <td>Rain Tree</td> </tr> <tr> <td>8.</td> <td>Delonix regia</td> <td>Gulmohar</td> </tr> <tr> <td>9.</td> <td>Senna siamea</td> <td>Kasod</td> </tr> <tr> <td>10.</td> <td>Syzygium cumini</td> <td>Jamun</td> </tr> <tr> <td>11.</td> <td>Mangifera indica</td> <td>Mango</td> </tr> <tr> <td>12.</td> <td>Psidium quajava</td> <td>Guava</td> </tr> <tr> <td>13.</td> <td>Manilkara zapota</td> <td>Chiku</td> </tr> <tr> <td>14.</td> <td>Phyllanthus emblica</td> <td>Amla</td> </tr> <tr> <td>15.</td> <td>Artocarpus heterophyllus</td> <td>Jack Fruit</td> </tr> <tr> <td>16.</td> <td>Gmelina arborea</td> <td>Gumhar</td> </tr> <tr> <td>17.</td> <td>Saraca asoca</td> <td>Ashoka</td> </tr> <tr> <td>18.</td> <td>Cassia fistula</td> <td>Amaltaas</td> </tr> <tr> <td>19.</td> <td>Mimusops elengi</td> <td>Molshree</td> </tr> <tr> <td>20.</td> <td>Terminalia arjuna</td> <td>Adun</td> </tr> <tr> <td>21.</td> <td>Dalbergia sissoo</td> <td>Sisham</td> </tr> <tr> <td>22.</td> <td>Bombax ceiba</td> <td>Semal</td> </tr> </tbody> </table> | Sr. No. | Scientific Name | Common Name | | Trees | | 1. | Peltophorum pterocarpum | Yellow Gulmohar | 2. | Azadirachta indica | Neem | 3. | Madhuca longifolia | Mahua | 4. | Putranjiva roxburghii | Putranjiva | 5. | Ficus benjamina | Ficus | 6. | Millettia pinnata | Karanj | 7. | Albizia saman | Rain Tree | 8. | Delonix regia | Gulmohar | 9. | Senna siamea | Kasod | 10. | Syzygium cumini | Jamun | 11. | Mangifera indica | Mango | 12. | Psidium quajava | Guava | 13. | Manilkara zapota | Chiku | 14. | Phyllanthus emblica | Amla | 15. | Artocarpus heterophyllus | Jack Fruit | 16. | Gmelina arborea | Gumhar | 17. | Saraca asoca | Ashoka | 18. | Cassia fistula | Amaltaas | 19. | Mimusops elengi | Molshree | 20. | Terminalia arjuna | Adun | 21. | Dalbergia sissoo | Sisham | 22. | Bombax ceiba | Semal | |
| Sr. No. | Scientific Name | Common Name | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Trees | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | Peltophorum pterocarpum | Yellow Gulmohar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | Azadirachta indica | Neem | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | Madhuca longifolia | Mahua | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | Putranjiva roxburghii | Putranjiva | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | Ficus benjamina | Ficus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. | Millettia pinnata | Karanj | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. | Albizia saman | Rain Tree | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. | Delonix regia | Gulmohar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. | Senna siamea | Kasod | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. | Syzygium cumini | Jamun | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11. | Mangifera indica | Mango | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12. | Psidium quajava | Guava | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13. | Manilkara zapota | Chiku | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14. | Phyllanthus emblica | Amla | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15. | Artocarpus heterophyllus | Jack Fruit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16. | Gmelina arborea | Gumhar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17. | Saraca asoca | Ashoka | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18. | Cassia fistula | Amaltaas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19. | Mimusops elengi | Molshree | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20. | Terminalia arjuna | Adun | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. | Dalbergia sissoo | Sisham | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. | Bombax ceiba | Semal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | 23. | Schleichera oleosa | Kusum | | |
| | 24. | Moringa oleifera | Drumstick | | |
| | 25. | Brahoa | Palm | | |
| | 26. | Lagerstroemia specio | Zarul | | |
| | 27. | Aegle marmelos | Bel | | |
| | 28. | Ficus virens | White fig | | |
| ii. | Not tree will be felled/transplant unless exigencies demand. Where absolute necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cul) to species (Planted). | | | Noted & Compliance Assured | |
| iii. | A minimum of 1 tree for every 80 sqm of land shall be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should included plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. | | | Noted & Compliance Assured | |
| iv. | Where the trees need to be cut with prior permission from the concerned local Authority. Compensatory plantation in the ratio of 1:10 (ie. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted), Area for green belt development shall be provided as per the details provided in the project document. | | | Noted & Compliance Assured | |
| v. | Topsoil should be stripped to depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stack plied appropriately in designated areas and reapplied during plantation of the proposed vegetations on site. | | | Noted & Compliance Assured | |
| VIII | Transport | | | | |

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| i. | <p>A comprehensive mobility plan, as per MOUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public and private network. Road should be designed with due consideration for environment and safety of users. The road system can be designed with these basic criteria.</p> <p>A Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.</p> <p>B Traffic calming measures.</p> <p>C Proper design of entry and exit points</p> <p>D Parking norms as per local regulation</p> | Noted & Compliance Assured during operation. |
| ii. | <p>Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.</p> | <p>Being Complied</p> <p>Only pollution (PUC) certified vehicles will be hired for construction activities.</p> |
| iii. | <p>Total proposed Parking's arrangement for 341 ECS (Open area parking 245 ECS & Stilt Floor parking 96 ECS).</p> | Noted |
| iv. | <p>A detailed traffic management and traffic decongesting plan shall be drawn up to ensure that the current level of service of the road within a 05 Kms radius of the project as maintained and Improved upon after the implementation of the project. This plan should be based on cumulative impact of the development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management and the PWD/competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.</p> | Noted & Compliance Assured. |
| IX | Human health issues | |
| i. | <p>Basic facilities like washrooms and toilets for the use by employees, guard, gardeners, outside drivers and house hold workers shall be provided in appropriate numbers to avoid open defecation in the nearby areas</p> | Noted & Compliance Assured. |
| ii. | <p>All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask</p> | Being Complied |

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| iii. | For indoor air quality the ventilation provisions as per National Building Code of India. | Noted & Compliance Assured. |
| iv. | An emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implementation. | Noted & Compliance Assured. |
| v. | Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile, STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project | Being Complied |
| vi. | Occupational health surveillance of the workers shall be done on a regular basis. | Being Complied |
| vii. | A First Aid Room shall be provided in the project both during construction and operations of the project. | Noted & Being Complied |
| X | EMP & Corporation Environment Responsibility | |
| i. | For Environment Management Plan PP has proposed Rs. 8.65 Crore as capital and Rs. 0.35 Crore as recurring cost for this project. | Noted |
| ii. | The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated: 1st May 2018, as applicable, regarding Corporate Environment Responsibility. | Noted & Compliance Assured. |
| iii. | The company shall have a well-laid-down environmental policy duly approved by the Board of Directors. The Environmental policy should prescribe standard operating procedures to have proper checks and balance and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the Environmental/forest/wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly reports. | Complied. Corporate Environment policy is available. |
| iv. | A separate Environmental Cell both at the project and company head quarter with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization. | Complied We have established separate environmental monitoring cell with well qualified staff to carry out regular surveillance for implementation of stipulated environmental safeguards. |
| v. | Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year | Noted & Compliance Assured. Action plan for implementing EMP and environmental conditions is already |

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| | wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report. | prepared and submitted along with Conceptual plan. |
| XI | Miscellaneous | |
| i. | The project authorities must strictly adhere to the stipulation made by the MP Pollution Control Board and the State Government. | Noted & Compliance Assured. |
| ii. | The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the State Expert Appraisal Committee (SEAC) | Public Hearing is Not Applicable for this project. Action plan for implementing EMP and environmental conditions is already prepared and submitted along with Conceptual plan. |
| iii. | No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC). | Noted |
| iv. | The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter. | Noted & Compliance Assured. |
| Standard Conditions: | | |
| 1. | Any change in the correspondence address should be duly intimated to all the regulatory authorities within 30 days of such change | Noted & Compliance Assured. |
| 2. | All activities / mitigative measures proposed by PP in Environmental Impact Assessment (if applicable) and approved by SEAC must be ensured. | Noted & Compliance Assured. |
| 3. | All activities/ mitigative measures proposed by PP in Environmental Management Plan and approved by SEAC must be ensured. | Noted & Compliance Assured. |
| 4. | Project Proponent has to strictly follow the direction/guidelines issued by MoEF&CC, CPCB and other Govt. agencies from time-to-time. | Noted & Agreed |
| 5. | The Ministry or any other competent authority may alter/modify the conditions or stipulate any further condition in the interest of environmental protection. | Noted & Compliance Assured. |

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| 6. | This environmental clearance will be valid for a period of ten years from the date of its issue as per MoEF & CC, GoI notification No. SO 1807 (E) dated 12.04.2022 or till the completion of the project, whichever is earlier. | Noted & Agreed |
| 7. | Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986. | Noted & Agreed |
| 8. | The Project Proponent has to upload soft copy of half yearly compliance report of the stipulated prior environmental clearance terms and conditions on 1st June and 1st December of each calendar year on MOEFCC web portal http://www.environmentclearance.nic.in or http://www.efclearance.nic.in/ and submit hard copy of compliance report of the stipulated prior environmental clearance terms and conditions to the Regulatory Authority also. | Noted & Compliance Assured. Copy of half yearly compliance report of the stipulated prior environmental clearance shall be uploaded at MoEFCC Portal. |
| 9. | The Regional Office, MOEF, GoI, Bhopal and MPPCB shall monitor compliance with the stipulated conditions. A complete set of documents including Environment Impact Assessment Report, Environmental Management Plan and other documents information should be given to Regional Office of the MOEF, GoI at Bhopal and MPPCB. | Six monthly EC compliance shall be submitted along with requisite documents and Environmental monitoring reports. |
| 10. | The Project Proponent shall inform the Regional Office, MoEF, GoI, Bhopal and MPPCB regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work. | Noted & Agreed. Financial closures is already achieved and the start of land development work has already started. |
| 11. | In the case of expansion or any change(s) in the scope of the project, the project shall again require prior Environmental Clearance as per EIA notification, 2006. | Noted & Compliance Assured |
| 12. | The SEIAA of M.P. reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner. | Noted & Compliance Assured |
| 13. | 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 | Being Complied. Environmental parameters including NO _x , RSPM (PM-10 & PM-2.5) SO ₂ , NO _x (from stack & ambient air) being regularly |

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| | simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely: SPM, RGPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company and in the public domain. | monitored, and results are displayed at the main gate of the Power Plant Env. Monitoring is being done by third parties and report is being sent to pollution control board on regular basis. Environmental monitoring report is enclosed as Annexure-I . |
| 14. | The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEFCC . | Noted & Compliance Assured |
| 15. | A copy of the environmental clearance shall be submitted by the Project Proponent to the Heads of the Local Bodies, Panchayat and municipal bodies as applicable in addition to the relevant officers of the Government who in turn has to display the same for 30 days from the date of receipt. | Complied Copy of environmental clearance letter submitted to Dist. Development Officer, Block Development Officer, Panchayats, Zilla Parishad and relevant offices of the Government. The acknowledgement copy is attached as Annexure- III . |
| 16. | The Project Proponent shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website of the State Level Environment Impact Assessment Authority (SEIAA) at www.mpseiaa.nic.in and a copy of the same shall be forwarded to the Regional Office, MoEF, Gol, Bhopal. | Complied Information through advertisement has been published in two local newspapers (Dainik Bhaskar & Times of India) in Hindi & English. The Newspaper advertisement is attached as Annexure- IV. |
| 17. | Any appeal against this prior environmental clearance shall be with the Green Tribunal, if necessary, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010. | Noted & Compliance Assured |

SUMMARY SHEET OF AMBIENT AIR QUALITY MONITORING : APRIL – 2024

Name & Address of the Party: M/s Mahan Energen Limited
 Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli,
 Madhya Pradesh - 486886
 Reporting Date: 07/05/2024

| S. No. | Date of Saupling | Near Admin Buliding | | | | Near Gate No. – 2 | | | | Near Gate No. – 3 | | | |
|--------|--------------------------|--------------------------------------|---------------------------------------|---|---|--------------------------------------|---------------------------------------|---|---|--------------------------------------|---------------------------------------|---|---|
| | | Parameters & Results | | | | Parameters & Results | | | | Parameters & Results | | | |
| | | PM10 ($\mu\text{g}/\text{m}^3$) | PM2.5 ($\mu\text{g}/\text{m}^3$) | SO ₂ ($\mu\text{g}/\text{m}^3$) | NO ₂ ($\mu\text{g}/\text{m}^3$) | PM10 ($\mu\text{g}/\text{m}^3$) | PM2.5 ($\mu\text{g}/\text{m}^3$) | SO ₂ ($\mu\text{g}/\text{m}^3$) | NO ₂ ($\mu\text{g}/\text{m}^3$) | PM10 ($\mu\text{g}/\text{m}^3$) | PM2.5 ($\mu\text{g}/\text{m}^3$) | SO ₂ ($\mu\text{g}/\text{m}^3$) | NO ₂ ($\mu\text{g}/\text{m}^3$) |
| 1. | 01/04/2024 To 02/04/2024 | 64.32 | 41.45 | 14.86 | 24.43 | 75.73 | 42.64 | 13.72 | 25.05 | 79.32 | 39.12 | 14.08 | 23.76 |
| 2. | 05/04/2023 To 06/04/2024 | 66.34 | 36.84 | 15.42 | 23.62 | 72.88 | 40.32 | 12.82 | 23.54 | 81.43 | 44.31 | 13.87 | 19.65 |
| 3. | 08/04/2024 To 09/04/2024 | 63.78 | 38.52 | 13.34 | 22.32 | 76.84 | 39.87 | 11.89 | 22.56 | 77.54 | 43.56 | 12.56 | 22.54 |
| 4. | 12/04/2024 To 13/04/2024 | 65.56 | 37.56 | 12.67 | 23.54 | 75.93 | 37.98 | 14.23 | 24.43 | 80.64 | 40.87 | 14.45 | 24.43 |
| 5. | 15/04/2024 To 16/04/2024 | 64.45 | 35.89 | 13.56 | 20.78 | 74.67 | 43.76 | 13.24 | 21.52 | 78.42 | 42.43 | 15.76 | 21.89 |
| 6. | 19/04/2024 To 20/04/2024 | 62.89 | 37.65 | 14.43 | 24.32 | 69.56 | 44.89 | 14.54 | 25.12 | 77.67 | 39.59 | 14.41 | 23.67 |
| 7. | 22/04/2024 To 23/04/2024 | 67.43 | 40.23 | 15.32 | 25.64 | 78.45 | 40.43 | 16.23 | 24.66 | 76.42 | 40.12 | 12.23 | 22.06 |
| 8. | 26/04/2024 To 27/04/2024 | 64.34 | 39.95 | 13.89 | 23.46 | 74.83 | 43.22 | 14.67 | 26.34 | 79.34 | 43.87 | 14.46 | 20.32 |
| 9. | 29/04/2024 To 30/04/2024 | 65.89 | 36.54 | 14.32 | 25.67 | 76.54 | 42.54 | 16.35 | 25.84 | 78.21 | 42.53 | 15.87 | 25.53 |
| 10. | Maximum | 67.43 | 41.45 | 15.42 | 25.67 | 78.45 | 44.89 | 16.35 | 26.34 | 81.43 | 44.31 | 15.87 | 25.53 |
| 11. | Minimum | 62.89 | 35.89 | 12.67 | 20.78 | 69.56 | 37.98 | 11.89 | 21.52 | 76.42 | 39.12 | 12.23 | 19.65 |
| 12. | Average | 65.00 | 38.29 | 14.20 | 23.75 | 75.05 | 41.74 | 14.19 | 24.34 | 78.78 | 41.82 | 14.19 | 22.65 |
| 13. | Limits As Per NAAQS | 100 | 60 | 80 | 80 | 100 | 60 | 80 | 80 | 100 | 60 | 80 | 80 |

Note:- NAAQS: National Ambient Air Quality Standards.



Approval & Certifications



Laboratory:

Plot No. 82A, Sector -5, IMT Manesar, Gurugram - 122051, Haryana
 Tel : +91 124 4343750, 4343752, 4343753

E-mail: lab@vardan.co.in, bd@vardan.co.in
 www.vardan.co.in

SUMMARY SHEET OF AMBIENT AIR QUALITY MONITORING, JUNE – 2024

Name & Address of the Party: **M/s Mahan Energen Limited**
Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli,
Madhya Pradesh - 486886

Reporting Date: **08/07/2024**

| S. No. | Date of Sampling | Near Admin Buliding | | | | Near Gate No. – 2 | | | | Near Gate No. – 3 | | | |
|--------|--------------------------|--------------------------------------|---------------------------------------|---|---|--------------------------------------|---------------------------------------|---|---|--------------------------------------|---------------------------------------|---|---|
| | | Parameters & Results | | | | Parameters & Results | | | | Parameters & Results | | | |
| | | PM10 ($\mu\text{g}/\text{m}^3$) | PM2.5 ($\mu\text{g}/\text{m}^3$) | SO ₂ ($\mu\text{g}/\text{m}^3$) | NO ₂ ($\mu\text{g}/\text{m}^3$) | PM10 ($\mu\text{g}/\text{m}^3$) | PM2.5 ($\mu\text{g}/\text{m}^3$) | SO ₂ ($\mu\text{g}/\text{m}^3$) | NO ₂ ($\mu\text{g}/\text{m}^3$) | PM10 ($\mu\text{g}/\text{m}^3$) | PM2.5 ($\mu\text{g}/\text{m}^3$) | SO ₂ ($\mu\text{g}/\text{m}^3$) | NO ₂ ($\mu\text{g}/\text{m}^3$) |
| 1 | 03-06-2024 to 04-06-2024 | 75.41 | 33.72 | 19.19 | 25.75 | 82.16 | 38.46 | 21.64 | 27.12 | 78.27 | 37.49 | 20.31 | 25.64 |
| 2 | 07-06-2024 to 08-06-2024 | 73.75 | 37.18 | 16.24 | 22.79 | 83.37 | 40.91 | 15.33 | 23.28 | 84.11 | 39.24 | 16.18 | 22.75 |
| 3 | 12-06-2024 to 13-06-2024 | 72.21 | 46.15 | 11.8 | 28.14 | 77.61 | 36.66 | 12.91 | 25.82 | 75.88 | 36.38 | 13.22 | 24.36 |
| 4 | 14-06-2024 to 15-06-2024 | 64.12 | 21.54 | 5.21 | 9.18 | 73.33 | 32.57 | 6.74 | 11.07 | 74.54 | 33.12 | 6.47 | 10.28 |
| 5 | 17-06-2024 to 18-06-2024 | 58.08 | 39.37 | 10.36 | 5.28 | 70.26 | 30.11 | 11.22 | 6.95 | 71.07 | 31.48 | 10.29 | 7.08 |
| 6 | 21-06-2024 to 22-06-2024 | 63.51 | 14.92 | 14.4 | 11.41 | 71.51 | 32.25 | 15.95 | 13.64 | 72.16 | 31.79 | 16.14 | 12.57 |
| 7 | 24-06-2024 to 25-06-2024 | 61.55 | 36.81 | 11.46 | 13.26 | 72.85 | 33.14 | 12.25 | 15.72 | 74.24 | 35.27 | 11.35 | 16.11 |
| 8 | 28-06-2024 to 29-06-2024 | 66.52 | 32.24 | 15.98 | 20.11 | 76.52 | 35.47 | 16.49 | 21.73 | 78.52 | 36.84 | 14.46 | 20.72 |
| 9 | Minimum | 58.08 | 14.92 | 5.21 | 5.28 | 70.26 | 30.11 | 6.74 | 6.95 | 71.07 | 31.48 | 6.47 | 7.08 |
| 10 | Maximum | 75.41 | 46.15 | 19.19 | 28.14 | 83.37 | 40.91 | 21.64 | 27.12 | 84.11 | 39.24 | 20.31 | 25.64 |
| 11 | Average | 66.89 | 32.74 | 13.08 | 16.99 | 75.95 | 34.95 | 14.07 | 18.17 | 76.10 | 35.20 | 13.55 | 17.44 |
| 12 | Limits As Per CPCB | 100 | 60 | 80 | 80 | 100 | 60 | 80 | 80 | 100 | 60 | 80 | 80 |

Note:- CPCB: Centr l Pollution Control Board.



Approvals & Certifications



Laboratory:

Plot No. 82A, Sector -5, IMT Manesar, Gurugram - 122051, Haryana
 Tel : +91 124 4343750, 4343752, 4343753

E-mail: lab@vardan.co.in, bd@vardan.co.in
 www.vardan.co.in

SUMMARY SHEET OF QUARTERLY AMBIENT AIR QUALITY MONITORING, JUNE- 2024

Name & Address of the Party: M/s Mahan Energen Limited
 Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli,
 Madhya Pradesh - 486886

Reporting Date: 08/07/2023

| S. No. | Date of Sampling | Locations | Parameters & Results | | | | | | | | |
|--------|--------------------------------|---------------------|-------------------------|--------------------------------------|-------------------------|--|----------------------------|-------------------------------------|-------------------------|-------------------------|-------------------------|
| | | | CO (mg/m ³) | NH ₃ (µg/m ³) | Pb (µg/m ³) | C ₆ H ₆ (µg/m ³) | B(a)P (ng/m ³) | O ₃ (µg/m ³) | As (ng/m ³) | Ni (ng/m ³) | Hg (ng/m ³) |
| 1. | 28/06/2024 To 29/06/2024 | Near Admin Buliding | 0.52 | 15.27 | BLQ(LOQ-0.1) | BLQ(LOQ-0.5) | BLQ(LOQ-0.5) | 25.92 | BLQ(LOQ-0.1) | BLQ(LOQ-5.0) | BLQ(LOQ-1.0) |
| 2. | 28/06/2024 To 29/06/2024 | Near Gate No. - 2 | 0.67 | 16.14 | BLQ(LOQ-0.1) | BLQ(LOQ-0.5) | BLQ(LOQ-0.5) | 26.55 | BLQ(LOQ-0.1) | BLQ(LOQ-5.0) | BLQ(LOQ-1.0) |
| 3. | 28/06/2024 To 29/06/2024 | Near Gate No. - 3 | 0.61 | 17.13 | BLQ(LOQ-0.1) | BLQ(LOQ-0.5) | BLQ(LOQ-0.5) | 28.61 | BLQ(LOQ-0.1) | BLQ(LOQ-5.0) | BLQ(LOQ-1.0) |
| 4. | Limits As Per CPCB | | 4 | 400 | 1 | 5 | 1 | 180 | 6 | 20 | - |

Note:- CPCB: Central Pollution Control Board.

Approvals & Certifications



Laboratory:

Plot No. 82A, Sector -5, IMT Manesar, Gurugram - 122051, Haryana
 Tel : +91 124 4343750, 4343752, 4343753

E-mail: lab@vardan.co.in, bd@vardan.co.in
 www.vardan.co.in

SUMMARY SHEET OF AMBIENT AIR QUALITY MONITORING – JULY - 2024

Name & Address of the Party:

M/s Mahan Energen Limited
Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli,
Madhya Pradesh - 486886

Reporting Date:

08/08/2024

| S. No. | Date of Sampling | Near Admin Building | | | | | Near Gate No. – 2 | | | | | Near Gate No. – 3 | | | | |
|--------|--------------------------|--------------------------------------|---------------------------------------|---|---|----------------------------------|--------------------------------------|---------------------------------------|---|---|----------------------------------|--------------------------------------|---------------------------------------|---|---|----------------------------------|
| | | Parameters & Results | | | | | Parameters & Results | | | | | Parameters & Results | | | | |
| | | PM10 ($\mu\text{g}/\text{m}^3$) | PM2.5 ($\mu\text{g}/\text{m}^3$) | SO ₂ ($\mu\text{g}/\text{m}^3$) | NO ₂ ($\mu\text{g}/\text{m}^3$) | CO (mg/m^3) | PM10 ($\mu\text{g}/\text{m}^3$) | PM2.5 ($\mu\text{g}/\text{m}^3$) | SO ₂ ($\mu\text{g}/\text{m}^3$) | NO ₂ ($\mu\text{g}/\text{m}^3$) | CO (mg/m^3) | PM10 ($\mu\text{g}/\text{m}^3$) | PM2.5 ($\mu\text{g}/\text{m}^3$) | SO ₂ ($\mu\text{g}/\text{m}^3$) | NO ₂ ($\mu\text{g}/\text{m}^3$) | CO (mg/m^3) |
| 1. | 10-07-2024 To 11-07-2024 | 82.89 | 50.41 | 14.31 | 22.41 | 0.68 | 77.55 | 49.16 | 13.96 | 19.09 | 0.73 | 84.19 | 51.66 | 15.92 | 20.78 | 0.71 |
| 2. | 13-07-2024 To 14-07-2024 | 80.44 | 49.58 | 15.63 | 21.93 | 0.69 | 84.17 | 50.21 | 14.05 | 23.64 | 0.67 | 80.38 | 52.16 | 13.75 | 22.89 | 0.74 |
| 3. | 16-07-2024 To 17-07-2024 | 71.98 | 42.5 | 18.06 | 24.23 | 0.66 | 74.96 | 45.83 | 17.88 | 22.84 | 0.63 | 84.86 | 53.9 | 20.54 | 27.25 | 0.74 |
| 4. | 19-07-2024 To 20-07-2024 | 77.84 | 40.82 | 16.5 | 21.57 | 0.66 | 78.59 | 45.34 | 17.13 | 23.2 | 0.72 | 84.61 | 45.32 | 21.29 | 26.04 | 0.68 |
| 5. | 22-07-2024 To 23-07-2024 | 73.32 | 37.91 | 18.98 | 22.54 | 0.73 | 71.06 | 41.66 | 16.79 | 23.44 | 0.69 | 75.11 | 35.41 | 15.69 | 21.51 | 0.73 |
| 6. | 26-07-2024 To 27-07-2024 | 81.71 | 51.25 | 14.48 | 20.6 | 0.62 | 83.77 | 48.33 | 16.5 | 22.6 | 0.66 | 75.6 | 52.5 | 13.5 | 21.21 | 0.71 |
| 7. | 29-07-2024 To 30-07-2024 | 81.53 | 48.75 | 13.9 | 20.96 | 0.69 | 83.39 | 52.5 | 14.25 | 20.6 | 0.64 | 77.81 | 49.16 | 14.54 | 16.11 | 0.73 |
| 8. | Maximum | 71.98 | 37.91 | 13.90 | 20.60 | 0.62 | 71.96 | 41.66 | 13.96 | 19.09 | 0.63 | 75.11 | 35.41 | 13.50 | 16.11 | 0.68 |
| 9. | Minimum | 82.89 | 51.25 | 18.98 | 24.23 | 0.73 | 84.17 | 52.50 | 17.88 | 23.64 | 0.73 | 84.86 | 53.90 | 21.29 | 27.25 | 0.74 |
| 10. | Average | 78.53 | 45.89 | 15.98 | 22.03 | 0.68 | 79.00 | 47.58 | 15.79 | 22.20 | 0.68 | 80.37 | 48.59 | 16.46 | 22.26 | 0.72 |
| 11. | Limits As Per CPCB | 100 | 60 | 80 | 80 | 4 | 100 | 60 | 80 | 80 | 4 | 100 | 60 | 80 | 80 | 4 |
| | | Gajara Bahara Railway Siding | | | | | | | | | | | | | | |
| S. No. | Date of Sampling | Parameters & Results | | | | | | | | | | | | | | |
| | | PM10 ($\mu\text{g}/\text{m}^3$) | PM2.5 ($\mu\text{g}/\text{m}^3$) | SO ₂ ($\mu\text{g}/\text{m}^3$) | NO ₂ ($\mu\text{g}/\text{m}^3$) | CO (mg/m^3) | | | | | | | | | | |
| 1. | 27/07/2023 To 28/07/2023 | 79.67 | 50 | 12.4 | 22.23 | 0.72 | | | | | | | | | | |
| 2. | Limits As Per CPCB | 100 | 60 | 80 | 80 | 4 | | | | | | | | | | |

Note:- CPCB: Central Pollution Control Board.



Approvals & Certifications



Laboratory:

Plot No. 82A, Sector -5, IMT Manesar, Gurugram - 122051, Haryana
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www.vardan.co.in

SUMMARY SHEET OF AMBIENT AIR QUALITY MONITORING – AUGUST - 2024

Name & Address of the Party:

M/s Mahan Energen Limited
Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli,
Madhya Pradesh - 486886

Reporting Date:

07/09/2024

| S. No. | Date of Sampling | Near Admin Building | | | | | Near Gate No. – 2 | | | | | Near Gate No. – 3 | | | | |
|--------|--------------------------|--------------------------------------|---------------------------------------|---|---|----------------------------------|--------------------------------------|---------------------------------------|---|---|----------------------------------|--------------------------------------|---------------------------------------|---|---|----------------------------------|
| | | Parameters & Results | | | | | Parameters & Results | | | | | Parameters & Results | | | | |
| | | PM10 ($\mu\text{g}/\text{m}^3$) | PM2.5 ($\mu\text{g}/\text{m}^3$) | SO ₂ ($\mu\text{g}/\text{m}^3$) | NO ₂ ($\mu\text{g}/\text{m}^3$) | CO (mg/m^3) | PM10 ($\mu\text{g}/\text{m}^3$) | PM2.5 ($\mu\text{g}/\text{m}^3$) | SO ₂ ($\mu\text{g}/\text{m}^3$) | NO ₂ ($\mu\text{g}/\text{m}^3$) | CO (mg/m^3) | PM10 ($\mu\text{g}/\text{m}^3$) | PM2.5 ($\mu\text{g}/\text{m}^3$) | SO ₂ ($\mu\text{g}/\text{m}^3$) | NO ₂ ($\mu\text{g}/\text{m}^3$) | CO (mg/m^3) |
| 1. | 01-08-2024 To 02-08-2024 | 69.38 | 38.33 | 11.94 | 19.27 | 0.59 | 82.66 | 46.66 | 16.56 | 22.72 | 0.69 | 52.63 | 25.41 | 10.26 | 16.37 | 0.52 |
| 2. | 05-08-2024 To 06-08-2024 | 60.93 | 25.41 | 10.04 | 17.82 | 0.64 | 70.94 | 30.83 | 13.9 | 19.39 | 0.68 | 55.83 | 21.66 | 9.69 | 16.13 | 0.55 |
| 3. | 09-08-2024 To 10-08-2024 | 62.46 | 27.91 | 12.86 | 15.65 | 0.62 | 72.89 | 32.50 | 13.90 | 21.93 | 0.67 | 53.98 | 23.75 | 9.34 | 13.53 | 0.59 |
| 4. | 12-08-2024 To 13-08-2024 | 58.03 | 29.95 | 10.21 | 17.04 | 0.53 | 73.39 | 39.10 | 11.71 | 18.85 | 0.55 | 51.55 | 27.45 | 15.06 | 18.49 | 0.58 |
| 5. | 16-08-2024 To 17-08-2024 | 56.11 | 30.36 | 11.59 | 18.97 | 0.59 | 71.29 | 38.68 | 12.29 | 20.18 | 0.55 | 50.52 | 25.79 | 13.09 | 17.58 | 0.61 |
| 6. | 20-08-2024 To 21-08-2024 | 64.67 | 27.5 | 13.21 | 22.72 | 0.52 | 69.32 | 35.83 | 16.79 | 22.05 | 0.57 | 58.47 | 26.66 | 10.46 | 18.10 | 0.59 |
| 7. | 23-08-2024 To 24-08-2024 | 67.76 | 26.24 | 13.50 | 21.39 | 0.53 | 67.18 | 34.58 | 14.88 | 21.39 | 0.58 | 56.12 | 27.08 | 11.77 | 17.22 | 0.53 |
| 8. | 26-08-2024 To 27-08-2024 | 58.49 | 31.24 | 11.42 | 19.94 | 0.61 | 67.78 | 29.16 | 11.94 | 16.92 | 0.62 | 55.11 | 22.07 | 9.52 | 14.87 | 0.65 |
| 9. | 29-08-2024 To 30-08-2024 | 66.80 | 29.16 | 13.96 | 21.02 | 0.55 | 68.42 | 36.24 | 17.54 | 21.21 | 0.51 | 54.18 | 27.07 | 10.38 | 17.48 | 0.62 |
| 10. | Maximum | 69.38 | 38.33 | 13.96 | 22.72 | 0.64 | 82.66 | 46.66 | 17.54 | 22.72 | 0.69 | 58.47 | 27.45 | 15.06 | 18.49 | 0.65 |
| 11. | Minimum | 56.11 | 25.41 | 10.04 | 15.65 | 0.52 | 67.18 | 29.16 | 11.71 | 16.92 | 0.51 | 50.52 | 21.66 | 9.34 | 13.53 | 0.53 |
| 12. | Average | 62.74 | 29.57 | 12.08 | 19.31 | 0.58 | 71.54 | 35.95 | 14.39 | 20.52 | 0.60 | 54.27 | 25.22 | 11.06 | 16.64 | 0.58 |
| 13. | Limits As Per CPCB | 100 | 60 | 80 | 80 | 4 | 100 | 60 | 80 | 80 | 4 | 100 | 60 | 80 | 80 | 4 |

Note:- CPCB: Central Pollution Control Board.

Vardan EnviroLab LLP
(Formerly known as Vardan EnviroLab)



®

Approval & Certifications



Laboratory:

Plot No. 82A, Sector -5, IMT Manesar, Gurugram - 122051, Haryana
Tel : +91 124 4343750, 4343752, 4343753

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www.vardan.co.in



SUMMARY SHEET OF AMBIENT AIR QUALITY MONITORING – May- 2024

Name & Address of the Party: **M/s Mahan Energen Limited
Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli,
Madhya Pradesh - 486886**

Reporting Date: **08/06/2024**

| S. No. | Date of Sampling | Near Admin Building | | | | Near Gate No. – 02 | | | | Near Gate No. – 03 | | | |
|--------|--------------------------|--------------------------------------|---------------------------------------|---|---|--------------------------------------|---------------------------------------|---|---|--------------------------------------|---------------------------------------|---|---|
| | | Parameters & Results | | | | Parameters & Results | | | | Parameters & Results | | | |
| | | PM10 ($\mu\text{g}/\text{m}^3$) | PM2.5 ($\mu\text{g}/\text{m}^3$) | SO ₂ ($\mu\text{g}/\text{m}^3$) | NO ₂ ($\mu\text{g}/\text{m}^3$) | PM10 ($\mu\text{g}/\text{m}^3$) | PM2.5 ($\mu\text{g}/\text{m}^3$) | SO ₂ ($\mu\text{g}/\text{m}^3$) | NO ₂ ($\mu\text{g}/\text{m}^3$) | PM10 ($\mu\text{g}/\text{m}^3$) | PM2.5 ($\mu\text{g}/\text{m}^3$) | SO ₂ ($\mu\text{g}/\text{m}^3$) | NO ₂ ($\mu\text{g}/\text{m}^3$) |
| 1. | 03-05-2024 To 04-05-2024 | 62.54 | 44.36 | 12.18 | 26.52 | 77.85 | 40.76 | 15.49 | 27.65 | 76.45 | 37.64 | 16.17 | 21.38 |
| 2. | 06-05-2024 To 07-05-2024 | 68.56 | 34.56 | 17.13 | 24.85 | 74.29 | 42.46 | 14.21 | 25.45 | 83.47 | 41.24 | 15.97 | 22.73 |
| 3. | 10-05-2024 To 11-05-2024 | 66.43 | 41.27 | 11.52 | 24.19 | 80.18 | 42.54 | 11.89 | 20.31 | 75.27 | 42.96 | 13.88 | 23.36 |
| 4. | 13-05-2024 To 14-05-2024 | 67.38 | 40.34 | 13.72 | 24.68 | 77.61 | 35.47 | 12.54 | 25.87 | 82.87 | 39.14 | 16.34 | 25.65 |
| 5. | 17-05-2024 To 18-05-2024 | 66.67 | 37.54 | 14.93 | 22.78 | 76.95 | 45.18 | 15.83 | 23.74 | 80.52 | 44.66 | 17.47 | 24.94 |
| 6. | 20-05-2024 To 21-05-2024 | 64.63 | 39.89 | 16.56 | 25.56 | 73.86 | 46.74 | 12.69 | 26.36 | 79.84 | 42.68 | 15.76 | 25.91 |
| 7. | 24-05-2024 To 25-05-2024 | 68.46 | 43.35 | 16.98 | 23.57 | 75.72 | 38.85 | 18.36 | 26.93 | 78.62 | 40.68 | 13.32 | 24.15 |
| 8. | 27-05-2024 To 28-05-2024 | 66.84 | 41.82 | 13.63 | 22.75 | 76.28 | 41.17 | 16.69 | 24.68 | 81.87 | 45.63 | 15.88 | 19.29 |
| 9. | 30-05-2024 To 31-05-2024 | 67.87 | 38.92 | 15.85 | 26.74 | 78.84 | 46.89 | 14.67 | 23.46 | 79.57 | 44.57 | 15.95 | 26.37 |
| 10. | Maximum | 68.56 | 44.36 | 17.13 | 26.74 | 80.18 | 46.89 | 18.36 | 27.65 | 83.47 | 45.63 | 17.47 | 26.37 |
| 11. | Minimum | 62.54 | 34.56 | 11.52 | 22.75 | 73.86 | 35.47 | 11.89 | 20.31 | 75.27 | 37.64 | 13.32 | 19.29 |
| 12. | Average | 66.59 | 40.22 | 14.72 | 24.62 | 76.84 | 42.22 | 14.70 | 24.93 | 79.83 | 42.14 | 15.63 | 23.75 |
| 13. | Limits As Per CPCB | 100 | 60 | 80 | 80 | 100 | 60 | 80 | 80 | 100 | 60 | 80 | 80 |

Note:- CPCB: Central Pollution Control Board.

Approval & Certification



Laboratory:

Plot No. 82A, Sector -5, IMT Manesar, Gurugram - 122051, Haryana
Tel : +91 124 4343750, 4343752, 4343753

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Vardan EnviroLab LLP
(Formerly known as Vardan EnviroLab)



SUMMARY SHEET OF AMBIENT AIR QUALITY MONITORING, SEPTEMBER- 2024

Name & Address of the Party:

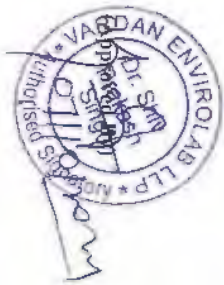
M/s Mahan Energen Limited
Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli,
Madhya Pradesh - 486886

Reporting Date:

07/10/2024

| S. No. | Date of Sampling | Near Admin Buliding | | | | | Near Gate No. - 2 | | | | | Near Gate No. - 3 | | | | |
|--------|--------------------------|--------------------------------------|---------------------------------------|---|---|----------------------------------|--------------------------------------|---------------------------------------|---|---|----------------------------------|--------------------------------------|---------------------------------------|---|---|----------------------------------|
| | | Parameters & Results | | | | | Parameters & Results | | | | | Parameters & Results | | | | |
| | | PM10 ($\mu\text{g}/\text{m}^3$) | PM2.5 ($\mu\text{g}/\text{m}^3$) | SO ₂ ($\mu\text{g}/\text{m}^3$) | NO ₂ ($\mu\text{g}/\text{m}^3$) | CO (mg/m^3) | PM10 ($\mu\text{g}/\text{m}^3$) | PM2.5 ($\mu\text{g}/\text{m}^3$) | SO ₂ ($\mu\text{g}/\text{m}^3$) | NO ₂ ($\mu\text{g}/\text{m}^3$) | CO (mg/m^3) | PM10 ($\mu\text{g}/\text{m}^3$) | PM2.5 ($\mu\text{g}/\text{m}^3$) | SO ₂ ($\mu\text{g}/\text{m}^3$) | NO ₂ ($\mu\text{g}/\text{m}^3$) | CO (mg/m^3) |
| 1 | 02-09-2024 to 03-09-2024 | 69.38 | 38.33 | 11.94 | 19.27 | 0.59 | 82.66 | 46.66 | 16.56 | 22.72 | 0.69 | 52.63 | 25.41 | 10.26 | 16.37 | 0.52 |
| 2 | 07-09-2024 to 08-09-2024 | 60.93 | 25.41 | 10.04 | 17.82 | 0.64 | 70.94 | 30.83 | 13.9 | 19.39 | 0.68 | 55.83 | 21.66 | 9.69 | 16.13 | 0.55 |
| 3 | 09-09-2024 to 10-09-2024 | 62.46 | 27.91 | 12.86 | 15.65 | 0.62 | 72.89 | 32.5 | 13.9 | 21.93 | 0.67 | 53.98 | 23.75 | 9.34 | 13.53 | 0.59 |
| 4 | 13-09-2024 to 14-09-2024 | 58.03 | 29.95 | 10.21 | 17.04 | 0.53 | 73.39 | 39.1 | 11.71 | 18.85 | 0.55 | 51.55 | 27.45 | 15.06 | 18.49 | 0.58 |
| 5 | 16-09-2024 to 17-09-2024 | 56.11 | 30.36 | 11.59 | 18.97 | 0.59 | 71.29 | 38.68 | 12.29 | 20.18 | 0.55 | 50.52 | 25.79 | 13.09 | 17.58 | 0.61 |
| 6 | 21-09-2024 to 22-09-2024 | 64.67 | 27.5 | 13.21 | 22.72 | 0.52 | 69.32 | 35.83 | 16.79 | 22.05 | 0.57 | 58.47 | 26.66 | 10.46 | 18.1 | 0.59 |
| 7 | 23-09-2024 to 24-09-2024 | 67.76 | 26.24 | 13.50 | 21.39 | 0.53 | 67.18 | 34.58 | 14.88 | 21.39 | 0.58 | 56.12 | 27.08 | 11.77 | 17.22 | 0.53 |
| 8 | 26-09-2024 to 27-09-2024 | 58.49 | 31.24 | 11.42 | 19.94 | 0.61 | 67.78 | 29.16 | 11.94 | 16.92 | 0.62 | 55.11 | 22.07 | 9.52 | 14.87 | 0.65 |
| 9 | Minimum | 56.11 | 25.41 | 10.04 | 15.65 | 0.52 | 67.18 | 29.16 | 11.71 | 16.92 | 0.55 | 50.52 | 21.66 | 9.34 | 13.53 | 0.53 |
| 10 | Maximum | 69.38 | 38.33 | 13.50 | 22.72 | 0.64 | 82.66 | 46.66 | 16.79 | 22.72 | 0.69 | 58.47 | 27.45 | 15.06 | 18.49 | 0.65 |
| 11 | Average | 62.23 | 29.62 | 11.85 | 19.10 | 0.58 | 71.93 | 35.92 | 14.00 | 20.43 | 0.61 | 54.28 | 24.98 | 11.15 | 16.54 | 0.58 |
| 12 | Limits As Per CPCB | 100 | 60 | 80 | 80 | 4 | 100 | 60 | 80 | 80 | 4 | 100 | 60 | 80 | 80 | 4 |

Note:- CPCB: Central Pollution Control Board.



Vardan Enviro Lab LLP
(Formerly known as Vardan Enviro Lab)



**Test Reports
of
Ground Water
Sample**



Test Report

| | | | |
|---------------------------------|---|----------------------|-------------------------|
| Sample Number: | VEL/W/01 | Report No.: | VEL/W/2409210001 |
| Name & Address of the Party: | M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh – 486886 | Format No.: | 7.8 F-03 |
| | | Party Reference No.: | 5703016500 |
| | | Date: | 09/06/2024 |
| | | Reporting Date: | 28/09/2024 |
| | | Period of Analysis: | 21/09/2024 - 28/09/2024 |
| | | Receipt Date: | 21/09/2024 |
| | | Sampling Date: | 10/09/2024 |
| Sample Description: | Ground Water | Sampling Quantity: | 10 Ltrs. + 250 ml |
| Location: | Bandhaura Village | Sampling Type: | Grab |
| Sample Collected By: | VEL Representative (Mr. Mithilesh Kumar) | Preservation: | Ice Box |
| Sampling and Analysis Protocol: | IS: 3025, APHA 23rd Edition 2017 & STP | Parameter Required: | As Per Work Order |

| S. No. | Parameters | Test Method | Results | Units | Limits of IS: 10500-2012 | |
|--|--------------------------------|---|-------------------|-------|--------------------------------|--|
| | | | | | Requirement (Acceptable Limit) | Permissible Limit in the Absence of Alternate Source |
| Table 1 Organoleptic and Physical Parameters | | | | | | |
| 1. | Colour | IS: 3025 (P-4) | *BLQ(**LOQ-1.0) | Hazen | 5 | 15 |
| 2. | Odour | IS: 3025 (P-5) | Agreeable | -- | Agreeable | Agreeable |
| 3. | pH (at 25°C) | IS: 3025 (P-11) | 7.16 | -- | 6.5 to 8.5 | No Relaxation |
| 4. | Taste | IS: 3025 (P-8) | Not Performed | -- | Agreeable | Agreeable |
| 5. | Turbidity | IS: 3025 (P-10) | 10.00 | NTU | 1 | 5 |
| 6. | Total Dissolved Solids | IS: 3025 (P-16) | 436.00 | mg/L | 500 | 2000 |
| Table 2 General Parameters Concerning Substances Undesirable in Excessive Amounts | | | | | | |
| 7. | Aluminium (as Al) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.002) | mg/L | 0.03 | 0.2 |
| 8. | Ammonia (as Total Ammonia - N) | IS: 3025 (P-34) | *BLQ(**LOQ-0.1) | mg/L | 0.5 | No Relaxation |
| 9. | Anionic Detergents (as MBAS) | IS: 3025 (P-68) | *BLQ(**LOQ-0.05) | mg/L | 0.2 | 1.0 |
| 10. | Barium (as Ba) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | mg/L | 0.7 | No Relaxation |
| 11. | Boron (as B) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | mg/L | 0.5 | 2.4 |
| 12. | Calcium (as Ca) | IS: 3025 (P-40) | 59.92 | mg/L | 75 | 200 |



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Test Report

| Sample Number: VEL/W/01 | | | Report No.: VEL/W/2409210001 | | | |
|-------------------------|--|--|------------------------------|-------|--------------------------------|--|
| S. No. | Parameters | Test Method | Results | Units | Limits of IS: 10500-2012 | |
| | | | | | Requirement (Acceptable Limit) | Permissible Limit in the Absence of Alternate Source |
| 13. | Chloramines (as Cl ₂) | IS: 3025 (P-26) | *BLQ(**LOQ-0.1) | mg/L | 4.0 | No Relaxation |
| 14. | Chloride (as Cl) | IS: 3025 (P-32) | 63.14 | mg/L | 250 | 1000 |
| 15. | Copper (as Cu) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.002) | mg/L | 0.05 | 1.5 |
| 16. | Fluoride (as F) | APHA, 4500 F D, SPADNS Method | 0.26 | mg/L | 1.0 | 1.5 |
| 17. | Residual Free Chlorine | IS: 3025 (P-26) | *BLQ(**LOQ-0.1) | mg/L | 0.2 | 1 |
| 18. | Iron (as Fe) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | mg/L | 1.0 | No Relaxation |
| 19. | Magnesium (as Mg) | APHA, 3500 Mg B, Calculation Method | 20.34 | mg/L | 30 | 100 |
| 20. | Manganese (as Mn) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | mg/L | 0.1 | 0.3 |
| 21. | Mineral Oil | IS: 3025 (P-39) | *BLQ(**LOQ-0.5) | mg/L | 1.0 | No Relaxation |
| 22. | Nitrate (as NO ₃) | IS: 3025 (P-34) | 5.94 | mg/L | 45 | No Relaxation |
| 23. | Phenolic Compounds (as C ₆ H ₅ OH) | IS: 3025 (P-13) | *BLQ(**LOQ-0.001) | mg/L | 0.001 | 0.002 |
| 24. | Selenium (as Se) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.001) | mg/L | 0.01 | No Relaxation |
| 25. | Silver (as Ag) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.002) | mg/L | 0.1 | No Relaxation |
| 26. | Sulphate (as SO ₄) | IS: 3025 (P-24) | 25.69 | mg/L | 200 | 400 |
| 27. | Sulphide (as H ₂ S) | IS: 3025 (P-29) | *BLQ(**LOQ-0.02) | mg/L | 0.05 | No Relaxation |
| 28. | Total Alkalinity (as CaCO ₃) | IS: 3025 (P-23) | 116.05 | mg/L | 200 | 600 |
| 29. | Total Hardness (as CaCO ₃) | IS: 3025 (P-21) | 231.00 | mg/L | 200 | 600 |
| 30. | Zinc (as Zn) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | mg/L | 5.0 | 15.0 |



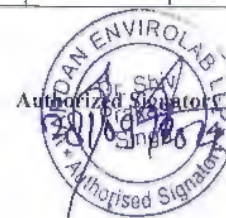
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Test Report

| Sample Number: VEL/W/01 | | | Report No.: VEL/W/2409210001 | | | |
|---|---|--|------------------------------|-------|--------------------------------|--|
| S. No. | Parameters | Test Method | Results | Units | Limits of IS: 10500-2012 | |
| | | | | | Requirement (Acceptable Limit) | Permissible Limit in the Absence of Alternate Source |
| Table 3 Parameters Concerning Toxic Substances | | | | | | |
| 31. | Cadmium (as Cd) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.002) | mg/L | 0.003 | No Relaxation |
| 32. | Cyanide (as CN) | IS: 3025 (P-27) | *BLQ(**LOQ-0.02) | mg/L | 0.05 | No Relaxation |
| 33. | Lead (as Pb) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.002) | mg/L | 0.01 | No Relaxation |
| 34. | Mercury (as Hg) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.0005) | mg/L | 0.001 | No Relaxation |
| 35. | Molybdenum (as Mo) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.002) | mg/L | 0.07 | No Relaxation |
| 36. | Nickel (as Ni) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.002) | mg/L | 0.02 | No Relaxation |
| 37. | Polychlorinated Biphenyls (PCB) | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.00005) | mg/L | 0.0005 | No Relaxation |
| 38. | Polynuclear Aromatic Hydrocarbons (PAH) | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.00005) | mg/L | 0.0001 | No Relaxation |
| 39. | Total Arsenic (as As) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.005) | mg/L | 0.01 | No Relaxation |
| 40. | Total Chromium (as Cr) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.002) | mg/L | 0.05 | No Relaxation |
| 41. | Trihalomethanes: | | | | | |
| (A) | Bromoform | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.05) | mg/L | 0.1 | No Relaxation |
| (B) | Dibromochloromethane | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.05) | mg/L | 0.1 | No Relaxation |
| (C) | Bromodichloromethane | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.05) | mg/L | 0.06 | No Relaxation |
| (D) | Chloroform | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.05) | mg/L | 0.2 | No Relaxation |



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Test Report

| Sample Number: VEL/W/01 | | | Report No.: VEL/W/2409210001 | | | |
|--|---|--|------------------------------|-------|--------------------------------|--|
| S. No. | Parameters | Test Method | Results | Units | Limits of IS: 10500-2012 | |
| | | | | | Requirement (Acceptable Limit) | Permissible Limit in the Absence of Alternate Source |
| Table 5 Pesticide Residues Limits and Test Method | | | | | | |
| 42. | Alachlor | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 20 | No Relaxation |
| 43. | Atrazine | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 2 | No Relaxation |
| 44. | Aldrin | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 0.03 | No Relaxation |
| 45. | Dieldrin | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 0.03 | No Relaxation |
| 46. | Alpha HCH | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 0.01 | No Relaxation |
| 47. | Beta HCH | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 0.04 | No Relaxation |
| 48. | Butachlor | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 125 | No Relaxation |
| 49. | Chlorpyrifos | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 30 | No Relaxation |
| 50. | Delta HCH | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 0.04 | No Relaxation |
| 51. | 2,4- Dichlorophenoxyacetic Acid | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 30 | No Relaxation |
| 52. | DDT (o, p and p, p – Isomers of DDT, DDE and DDD) | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 1 | No Relaxation |
| 53. | Endosulfan (Alpha, Beta & Sulphate) | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 0.4 | No Relaxation |
| 54. | Ethion | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 3 | No Relaxation |
| 55. | Gamma-HCH (Lindane) | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 2 | No Relaxation |
| 56. | Isoproturon | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 9 | No Relaxation |
| 57. | Malathion (Malathion and its Oxygen Analogue that is Malathion) | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 190 | No Relaxation |



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Test Report

| Sample Number: VEL/W/01 | | | Report No.: VEL/W/2409210001 | | | |
|--|---|--|------------------------------|------------|--|--|
| S. No. | Parameters | Test Method | Results | Units | Limits of IS: 10500-2012 | |
| | | | | | Requirement (Acceptable Limit) | Permissible Limit in the Absence of Alternate Source |
| 58. | Methyl Parathion (Methyl Parathion and its Oxygen Analogue that is Methyl-Paraoxon) | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 0.3 | No Relaxation |
| 59. | Monoerophos | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 1 | No Relaxation |
| 60. | Phorate (Phorate and its Oxygen Analogue that is Phorate Sulphoxide and Phorate Sulphone) | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 2 | No Relaxation |
| Table 5 Bacteriological Quality of Drinking Water | | | | | | |
| 61. | E. coli | IS: 15185 | Absent | Per 100 ml | Shall not be detectable in any 100 ml sample | -- |
| 62. | Total Coliform | IS: 15185 | Absent | Per 100 ml | Shall not be detectable in any 100 ml sample | -- |

Note: STP- Standard Testing Procedure, *BLQ- Below Limit of Quantification, **LOQ- Limit of Quantification.

Amendment No.1 in June 2015 (Limits of Iron & Arsenic) and Amendment No.2 in September 2018 (Limit of Boron & IS Method of E. coli & Total Coliform) & Amendment No.3 in February 2021 (Limit of Mineral Oil).



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Test Report

| | | | |
|---------------------------------|--|----------------------|-------------------------|
| Sample Number: | VEL/W/02 | Report No.: | VEL/W/2409210002 |
| Name & Address of the Party: | M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Dist.: Singrauli, Madhya Pradesh - 486886 | Format No.: | 7.8 F-03 |
| | | Party Reference No.: | 5703016500 |
| | | Date: | 09/06/2024 |
| | | Reporting Date: | 28/09/2024 |
| | | Period of Analysis: | 21/09/2024 - 28/09/2024 |
| | | Receipt Date: | 21/09/2024 |
| | | Sampling Date: | 10/09/2024 |
| Sample Description: | Ground Water | Sampling Quantity: | 10 Ltrs. + 250 ml |
| Location: | Karsualal Village | Sampling Type: | Grah |
| Sample Collected By: | VEL Representative (Mr. Mithilesh Kumar) | Preservation: | Ice Box |
| Sampling and Analysis Protocol: | IS: 3025, APHA 23rd Edition 2017 & STP | Parameter Required: | As Per Work Order |

| S. No. | Parameters | Test Method | Results | Units | Limits of IS: 10500-2012 | |
|--|--------------------------------|---|-------------------|-------|--------------------------------|--|
| | | | | | Requirement (Acceptable Limit) | Permissible Limit in the Absence of Alternate Source |
| Table 1 Organoleptic and Physical Parameters | | | | | | |
| 1. | Colour | IS: 3025 (P-4) | *BLQ(**LOQ-1.0) | Hazen | 5 | 15 |
| 2. | Odour | IS: 3025 (P-5) | Agreeable | -- | Agreeable | Agreeable |
| 3. | pH (at 25°C) | IS: 3025 (P-11) | 7.81 | -- | 6.5 to 8.5 | No Relaxation |
| 4. | Taste | IS: 3025 (P-8) | Agreeable | -- | Agreeable | Agreeable |
| 5. | Turbidity | IS: 3025 (P-10) | *BLQ(**LOQ-1.0) | NTU | 1 | 5 |
| 6. | Total Dissolved Solids | IS: 3025 (P-16) | 511.00 | mg/L | 500 | 2000 |
| Table 2 General Parameters Concerning Substances Undesirable in Excessive Amounts | | | | | | |
| 7. | Aluminium (as Al) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.002) | mg/L | 0.03 | 0.2 |
| 8. | Ammonia (as Total Ammonia - N) | IS: 3025 (P-34) | *BLQ(**LOQ-0.1) | mg/L | 0.5 | No Relaxation |
| 9. | Anionic Detergents (as MBAS) | IS: 3025 (P-68) | *BLQ(**LOQ-0.05) | mg/L | 0.2 | 1.0 |
| 10. | Barium (as Ba) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | mg/L | 0.7 | No Relaxation |
| 11. | Boron (as B) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | mg/L | 0.5 | 2.4 |
| 12. | Calcium (as Ca) | IS: 3025 (P-40) | 79.96 | mg/L | 75 | 200 |



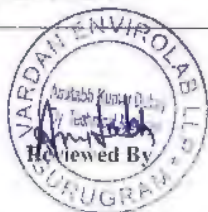
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Test Report

| Sample Number: VEL/W/02 | | | Report No.: VEL/W/2409210002 | | | |
|-------------------------|--|--|------------------------------|-------|--------------------------------|--|
| S. No. | Parameters | Test Method | Results | Units | Limits of IS: 10500-2012 | |
| | | | | | Requirement (Acceptable Limit) | Permissible Limit in the Absence of Alternate Source |
| 13. | Chloramines (as Cl ₂) | IS: 3025 (P-26) | *BLQ(**LOQ-0.1) | mg/L | 4.0 | No Relaxation |
| 14. | Chloride (as Cl) | IS: 3025 (P-32) | 70.42 | mg/L | 250 | 1000 |
| 15. | Copper (as Cu) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.002) | mg/L | 0.05 | 1.5 |
| 16. | Fluoride (as F) | APHA, 4500 F.D. SPADNS Method | 0.30 | mg/L | 1.0 | 1.5 |
| 17. | Residual Free Chlorine | IS: 3025 (P-26) | *BLQ(**LOQ-0.1) | mg/L | 0.2 | 1 |
| 18. | Iron (as Fe) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | mg/L | 1.0 | No Relaxation |
| 19. | Magnesium (as Mg) | APHA, 3500 Mg B, Calculation Method | 27.97 | mg/L | 30 | 100 |
| 20. | Manganese (as Mn) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | mg/L | 0.1 | 0.3 |
| 21. | Mineral Oil | IS: 3025 (P-39) | *BLQ(**LOQ-0.5) | mg/L | 1.0 | No Relaxation |
| 22. | Nitrate (as NO ₃) | IS: 3025 (P-34) | 5.08 | mg/L | 45 | No Relaxation |
| 23. | Phenolic Compounds (as C ₆ H ₅ OH) | IS: 3025 (P-43) | *BLQ(**LOQ-0.001) | mg/L | 0.001 | 0.002 |
| 24. | Selenium (as Se) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.001) | mg/L | 0.01 | No Relaxation |
| 25. | Silver (as Ag) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.002) | mg/L | 0.1 | No Relaxation |
| 26. | Sulphate (as SO ₄) | IS: 3025 (P-24) | 31.49 | mg/L | 200 | 400 |
| 27. | Sulphide (as H ₂ S) | IS: 3025 (P-29) | *BLQ(**LOQ-0.02) | mg/L | 0.05 | No Relaxation |
| 28. | Total Alkalinity (as CaCO ₃) | IS: 3025 (P-23) | 137.15 | mg/L | 200 | 600 |
| 29. | Total Hardness (as CaCO ₃) | IS: 3025 (P-21) | 315.00 | mg/L | 200 | 600 |
| 30. | Zinc (as Zn) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | mg/L | 5.0 | 15.0 |



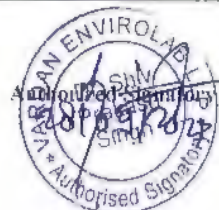
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Test Report

| Sample Number: VEL/W/02 | | | Report No.: VEL/W/2409210002 | | | |
|---|---|--|------------------------------|-------|--------------------------------|--|
| S. No. | Parameters | Test Method | Results | Units | Limits of IS: 10500-2012 | |
| | | | | | Requirement (Acceptable Limit) | Permissible Limit in the Absence of Alternate Source |
| Table 3 Parameters Concerning Toxic Substances | | | | | | |
| 31. | Cadmium (as Cd) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.002) | mg/L | 0.003 | No Relaxation |
| 32. | Cyanide (as CN) | IS: 3025 (P-27) | *BLQ(**LOQ-0.02) | mg/L | 0.05 | No Relaxation |
| 33. | Lead (as Pb) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.002) | mg/L | 0.01 | No Relaxation |
| 34. | Mercury (as Hg) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.0005) | mg/L | 0.001 | No Relaxation |
| 35. | Molybdenum (as Mo) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.002) | mg/L | 0.07 | No Relaxation |
| 36. | Nickel (as Ni) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.002) | mg/L | 0.02 | No Relaxation |
| 37. | Polychlorinated Biphenyls (PCB) | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.00005) | mg/L | 0.0005 | No Relaxation |
| 38. | Polynuclear Aromatic Hydrocarbons (PAH) | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.00005) | mg/L | 0.0001 | No Relaxation |
| 39. | Total Arsenic (as As) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.005) | mg/L | 0.01 | No Relaxation |
| 40. | Total Chromium (as Cr) | VEL/STP/ICP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.002) | mg/L | 0.05 | No Relaxation |
| 41. | Trihalomethanes: | | | | | |
| (A) | Bromoform | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.05) | mg/L | 0.1 | No Relaxation |
| (B) | Dibromochloromethane | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.05) | mg/L | 0.1 | No Relaxation |
| (C) | Bromodichloromethane | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.05) | mg/L | 0.06 | No Relaxation |
| (D) | Chloroform | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.05) | mg/L | 0.2 | No Relaxation |



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Test Report

| Sample Number: VEL/W/02 | | | Report No.: VEL/W/2409210002 | | | |
|--|--|--|------------------------------|-------|--------------------------------|--|
| S. No. | Parameters | Test Method | Results | Units | Limits of IS: 10500-2012 | |
| | | | | | Requirement (Acceptable Limit) | Permissible Limit in the Absence of Alternate Source |
| Table 4 Pesticide Residues Limits and Test Method | | | | | | |
| 42. | Alachlor | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 20 | No Relaxation |
| 43. | Atrazine | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 2 | No Relaxation |
| 44. | Aldrin | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 0.03 | No Relaxation |
| 45. | Dieldrin | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 0.03 | No Relaxation |
| 46. | Alpha HCH | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 0.01 | No Relaxation |
| 47. | Beta HCH | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 0.04 | No Relaxation |
| 48. | Butachlor | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 125 | No Relaxation |
| 49. | Chlorpyrifos | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 30 | No Relaxation |
| 50. | Delta HCH | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 0.04 | No Relaxation |
| 51. | 2,4- Dichlorophenoxyacetic Acid | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 30 | No Relaxation |
| 52. | DDT (o, p and p, p – Isomers of DDT, DDE and DDD) | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 1 | No Relaxation |
| 53. | Endosulfan (Alpha, Beta & Sulphate) | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 0.4 | No Relaxation |
| 54. | Ethion | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 3 | No Relaxation |
| 55. | Gamma-HCH (Lindane) | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 2 | No Relaxation |
| 56. | Isoproturon | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 9 | No Relaxation |
| 57. | Malathion (Malathion and its Oxygen Analogue that is Malaaxon) | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 190 | No Relaxation |



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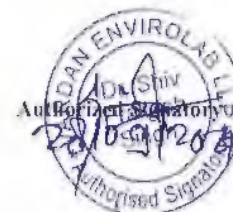
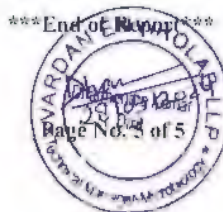


Test Report

| Sample Number: VEL/W/02 | | | Report No.: VEL/W/2409210002 | | | |
|--|---|--|------------------------------|------------|--|--|
| S. No. | Parameters | Test Method | Results | Units | Limits of IS: 10500-2012 | |
| | | | | | Requirement (Acceptable Limit) | Permissible Limit in the Absence of Alternate Source |
| 58. | Methyl Parathion (Methyl Parathion and its Oxygen Analogue that is Methyl-Paraoxon) | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 0.3 | No Relaxation |
| 59. | Monocrotophos | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 1 | No Relaxation |
| 60. | Phorate (Phorate and its Oxygen Analogue that is Phorate Sulphoxide and Phorate Sulphone) | VEL/STP/W-01, Issue No.- 01, Issue Date : 01/11/2021 | *BLQ(**LOQ-0.01) | µg/L | 2 | No Relaxation |
| Table 5 Bacteriological Quality of Drinking Water | | | | | | |
| 61. | E. coli | IS: 15185 | Absent | Per 100 ml | Shall not be detectable in any 100 ml sample | -- |
| 62. | Total Coliform | IS: 15185 | Absent | Per 100 ml | Shall not be detectable in any 100 ml sample | -- |

Note: STP- Standard Testing Procedure, *BLQ- Below Limit of Quantification, **LOQ- Limit of Quantification.

Amendment No.1 in June 2015 (Limits of Iron & Arsenic) and Amendment No.2 in September 2018 (Limit of Boron & IS Method of E. coli & Total Coliform) & Amendment No.3 in February 2021 (Limit of Mineral Oil).



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**Test Reports
of
Ambient Noise
Quality**



Test Report

| | | | |
|------------------------------|---|----------------------|------------------------|
| Sample Number: | VEL/AP/01 | Report No.: | VEL/AP/2404110001 |
| Name & Address of the Party: | M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886 | Format No.: | 7.8 F-03 |
| | | Party Reference No.: | 5703009832 |
| | | Date : | 14/06/2023 |
| | | Reporting Date: | 13/04/2024 |
| | | Period of Analysis: | 11/04/2024- 13/04/2024 |
| | | Receipt Date: | 11/04/2024 |
| | | Page No.: | 1 of 1 |

Sample Description: AMBIENT NOISE LEVEL MONITORING

| | |
|--|--------------------------------|
| General Information | |
| Sampling Location | : Near Admin Building |
| Sample Collected By | : VEL Representative |
| Sampling Instrument Used | : Sound Level Meter |
| Instrument Code | : VEL/INS/ENV/SLM/10 |
| Instrument Calibration Status | : Calibrated |
| Meteorological Condition During Monitoring | : Clear Sky |
| Date of Monitoring | : 08/04/2024 To 09/04/2024 |
| Time of Monitoring | : 06:00 A.M. To 06:00 A.M. |
| Ambient Temperature (°C) | : Min.25°C, Max.40°C |
| Surrounding Activity | : Human & Vehicular Activities |
| Scope of Monitoring | : Regulatory Requirement |
| Sampling & Analysis Protocol | : IS: 9989 |
| Sampling Duration | : 24 Hours |
| Parameter Required | : As Per Work Order |

| S. No. | Test Parameters | Test Method | Test Results | | Units |
|--------|--|-------------|--|--|--------|
| | | | Day Time (06:00 A.M. To 10:00 P.M.) | Night Time (10:00 P.M. To 06:00 A.M.) | |
| 1. | L _{Max.} | IS: 9989 | 64.2 | 60.1 | dB (A) |
| 2. | L _{Min.} | IS: 9989 | 42.6 | 39.4 | dB (A) |
| 3. | L _{Eq.} | IS: 9989 | 57.50 | 52.40 | dB (A) |
| 4. | CPCB Limits In dB (A*) L _{Eq.} (Industrial Area) | - | 75.00 | 70.00 | dB (A) |

Note:-*A "decibel" is a unit in which noise is measured.

End of Report



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Test Report

| | | | |
|------------------------------|-------------------------------------|----------------------|------------------------|
| Sample Number: | VEL/AP/02 | Report No.: | VEL/AP/2404180001 |
| Name & Address of the Party: | M/s Mahan Energen Limited | Format No.: | 7.8 F-03 |
| | Village: Bandhora, Post: Karsualal, | Party Reference No.: | 5703009832 |
| | Tehsil: Mada, Distt.: Singrauli, | Date : | 14/06/2023 |
| | Madhya Pradesh - 486886 | Reporting Date: | 20/04/2024 |
| | | Period of Analysis: | 18/04/2024- 20/04/2024 |
| | | Receipt Date: | 18/04/2024 |
| | | Page No.: | 1 of 1 |

Sample Description: AMBIENT NOISE LEVEL MONITORING

| | |
|--|--------------------------------|
| General Information | |
| Sampling Location | : Near Gate No. - 1 |
| Sample Collected By | : VEL Representative |
| Sampling Instrument Used | : Sound Level Meter |
| Instrument Code | : VEL/INS/ENV/SLM/10 |
| Instrument Calibration Status | : Calibrated |
| Meteorological Condition During Monitoring | : Clear Sky |
| Date of Monitoring | : 15/04/2024 To 16/04/2024 |
| Time of Monitoring | : 06:00 A.M. To 06:00 A.M. |
| Ambient Temperature (°C) | : Min.25°C, Max.40°C |
| Surrounding Activity | : Human & Vehicular Activities |
| Scope of Monitoring | : Regulatory Requirement |
| Sampling & Analysis Protocol | : IS: 9989 |
| Sampling Duration | : 24 Hours |
| Parameter Required | : As Per Work Order |

| S. No. | Test Parameters | Test Method | Test Results | | Units |
|--------|--|-------------|--|--|--------|
| | | | Day Time (06:00 A.M. To 10:00 P.M.) | Night Time (10:00 P.M. To 06:00 A.M.) | |
| 1. | L _{Max.} | IS: 9989 | 68.2 | 62.5 | dB (A) |
| 2. | L _{Min.} | IS: 9989 | 45.5 | 43.3 | dB (A) |
| 3. | L _{Eq.} | IS: 9989 | 60.80 | 51.90 | dB (A) |
| 4. | CPCB Limits In dB (A*) L _{Eq.} (Industrial Area) | - | 75.00 | 70.00 | dB (A) |

Note:-*A "decibel" is a unit in which noise is measured.

End of Report



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Test Report

Sample Number: VEL/AP/03 Report No.: VEL/AP/2404250001
Name & Address of the Party: M/s Mahan Energen Limited Format No.: 7.8 F-03
Village: Bandhora, Post: Karsualal, Party Reference No.: 5703009832
Tehsil: Mada, Distt.: Singrauli, Date: 14/06/2023
Madhya Pradesh - 486886 Reporting Date: 27/04/2024
Period of Analysis: 25/04/2024 - 27/04/2024
Receipt Date: 25/04/2024
Page No.: 1 of 1

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information

Sampling Location : Near Gate No. - 2
Sample Collected By : VEL Representative
Sampling Instrument Used : Sound Level Meter
Instrument Code : VEL/INS/ENV/SLM/10
Instrument Calibration Status : Calibrated
Meteorological Condition During Monitoring : Clear Sky
Date of Monitoring : 22/04/2024 To 23/04/2024
Time of Monitoring : 06:00 A.M. To 06:00 A.M.
Ambient Temperature (°C) : Min.26°C, Max.41°C
Surrounding Activity : Human & Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS: 9989
Sampling Duration : 24 Hours
Parameter Required : As Per Work Order

| S. No. | Test Parameters | Test Method | Test Results | | Units |
|--------|--|-------------|--|--|--------|
| | | | Day Time (06:00 A.M. To 10:00 P.M.) | Night Time (10:00 P.M. To 06:00 A.M.) | |
| 1. | L _{Max.} | IS: 9989 | 70.8 | 62.5 | dB (A) |
| 2. | L _{Min.} | IS: 9989 | 46.4 | 46.4 | dB (A) |
| 3. | L _{Eq.} | IS: 9989 | 68.21 | 56.32 | dB (A) |
| 4. | CPCB Limits In dB (A*) L _{Eq.} (Industrial Area) | - | 75.00 | 70.00 | dB (A) |

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End of Report



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Test Report

Sample Number: VEL/AP/04 Report No.: VEL/AP/2405020001
Name & Address of the Party: M/s Mahan Energen Limited Format No.: 7.8 F-03
Village: Bandhora, Post: Karsualal, Party Reference No.: 5703009832
Tehsil: Mada, Distt.: Singrauli, Date : 14/06/2023
Madhya Pradesh - 486886 Reporting Date: 04/05/2024
Period of Analysis: 02/05/2024 - 04/05/2024
Receipt Date: 02/05/2024
Page No.: 1 of 1

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information
Sampling Location : Near Gate No. - 3
Sample Collected By : VEL Representative
Sampling Instrument Used : Sound Level Meter
Instrument Code : VEL/INS/ENV/SLM/10
Instrument Calibration Status : Calibrated
Meteorological Condition During Monitoring : Clear Sky
Date of Monitoring : 29/04/2024 To 30/04/2024
Time of Monitoring : 06:00 A.M. To 06:00 A.M.
Ambient Temperature (°C) : Min.25°C, Max.41°C
Surrounding Activity : Human & Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS: 9989
Sampling Duration : 24 Hours
Parameter Required : As Per Work Order

| S. No. | Test Parameters | Test Method | Test Results | | Units |
|--------|--|-------------|--|--|--------|
| | | | Day Time (06:00 A.M. To 10:00 P.M.) | Night Time (10:00 P.M. To 06:00 A.M.) | |
| 1. | L _{Max.} | IS: 9989 | 62.4 | 55.6 | dB (A) |
| 2. | L _{Min.} | IS: 9989 | 40.6 | 38.9 | dB (A) |
| 3. | L _{Eq.} | IS: 9989 | 57.46 | 44.74 | dB (A) |
| 4. | CPCB Limits In dB (A*) L _{Eq.} (Industrial Area) | - | 75.00 | 70.00 | dB (A) |

Note:-*A "decibel" is a unit in which noise is measured.

End of Report



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Power

Ref: MEL/RC/MP/MCS/101/23

Date: 10.10.2023

To,

**The Municipal Commissioner,
Municipal Corporation Singrauli
(Nagar Palik Nigam, Singrauli)
Majan More, Singrauli, Madhya Pradesh**

Sub.: Request for issuance of NOC for the disposal of Municipal Solid Waste generated from our Proposed Residential Township of Bandhaura Thermal Power Plant at Village Karsualal, Tehsil Mada, District Singrauli, Madhya Pradesh by Mahan Energen Limited.

Ref: Environment Clearance (EC) Online Proposal Submitted No. SIA/MP/INFRA2/444647/2023 at MoEFCC Parivesh Portal Under Municipal Solid Waste Management Rules, 2016 & subsequent amendments issued by MoEFCC

Sir,

Mahan Energen Limited (MEL) is an operating 2x600 MW & proposed 2x800 MW Coal based Bandhaura Thermal Power Plant (TPP) at village Bandhaura, Nagwa, Karsualal and Khairahi, Tehsil Mada, District Singrauli, Madhya Pradesh.

MEL has proposed to establish Residential Township of Bandhaura Thermal Power Plant at Village Karsualal, Tehsil Mada, District Singrauli, Madhya Pradesh and the proposal (SIA/MP/INFRA2/444647/2023) has been submitted at MoEFCC for its appraisal. During the operation phase of the **proposed residential township of MEL will generate Municipal Solid Waste (MSW)** and segregated MSW (Inorganic waste only as wood, carboards, plastics etc.) shall be collected & disposed off at designated/authorized common place by the **Nagar Palik Nigam, Waidhan, Singrauli.**

We are herewith submitting our NOC Application for the Proposed Residential Township by Bandhaura Thermal Power Plant at Village Karsualal, Tehsil Mada, District Singrauli, Madhya Pradesh.

We humbly request you to kindly consider & issue NOC for disposal of generated MSW (Inorganic waste) at Nagar palika designated/authorized location/ area.

Thanking You,

Yours Faithfully,

For Mahan Energen Limited

(R N Shukla)

Authorized Signatory

Mahan Energen Limited
(Formerly Known as Essar Power M P Limited)
"Adani Corporate House"
Shantigram, Near Vaishno Devi Circle,
S. G. Highway, Khodiyar,
Ahmedabad-382421, Gujarat India
CIN: U40100DL2005PLC201961

Tel +91 79 2656 7555
Fax +91 79 2555 7177
info@adani.com
www.adanipower.com

adani

Power

Ref: APL/MEL/MoEFCC/EC/0532/24

Date: 31.01.2024

To

The District Collector,
Waidhan, District Singrauli,
Madhya Pradesh

Sub.: State Environment Impact Assessment Authority (SEIAA), Madhya Pradesh has granted Environmental Clearance (EC) vide file No.- 10627/2023, EC Identification No. - EC24B038MP194263 on dated: 29/01/2024 to "Mahan Energen Limited" for Residential Township of Bandhaura Thermal Power Plant at Village – Karsualal, Tehsil – Mada, District – Singrauli, Madhya Pradesh

Ref: EC granted vide file No.- 10627/2023, EC Identification No. - EC24B038MP194263 on dated: 29/01/2024


Dear Sir,

With refrance to the above mentioned subject we would like to inform you that State Environment Impact Assessment Authority (SEIAA), Madhya Pradesh has granted Environmental Clearance (EC) to "**Mahan Energen Limited**" vide file No.- **10627/2023, EC Identification No. - EC24B038MP194263 on dated: 29/01/2024 for Residential Township (Employees/Staff)** of Bandhaura Thermal Power Plant at Village – Karsualal, Tehsil – Mada, District – Singrauli, Madhya Pradesh and may also be seen at the Website of State Level Environment Impact Assessment Authority (SEIAAA) at www.mpseiaa.nic.in and Company's Website <https://www.adanipower.com>.

This is for your kind information and record please.

Thanking You

Yours faithfully,
for **Mahan Energen Limited**


(R N Shukla)
Authorized Signatory

Encl.: Copy of EC

CC The Municipal Commissioner
Municipal Corporation Singrauli
Nagar Palika Nigam, Singrauli.

The Block Development Officer
Bilaunji, Waidhan – Singrauli.

Sarpanch/Mukhiya/Sachiv

Gram Panchyat- Karsualal
Tahsil- Mada, Dist.- Singrauli

Zilla Panchayat / Zilla Parishad Office
Waidhan, Singrauli.

Mahan Energen Limited
Adani Corporate House
Shantigram, S G Highway
Ahmedabad 382 421
Gujarat, India
CIN: U40100GJ2005PLC147690

Tel +91 79 2656 4444
Fax +91 79 2555 7177
www.adani.com

Registered Office: Adani Corporate House, Shantigram, Vaishnodevi Circle, SG Highway, Khodiyar, 382421, Gujarat, India



Power

Ref: APL/MEL/MoEFCC/EC/0532/24

Date: 31.01.2024

To

The District Collector,
Waidhan, District Singrauli,
Madhya Pradesh

Sub.: State Environment Impact Assessment Authority (SEIAA), Madhya Pradesh has granted Environmental Clearance (EC) vide file No.- 10627/2023, EC Identification No. - EC24B038MP194263 on dated: 29/01/2024 to "Mahan Energen Limited" for Residential Township of Bandhaura Thermal Power Plant at Village – Karsualal, Tehsil – Mada, District – Singrauli, Madhya Pradesh

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Nagar Palika Nigam, Singrauli.
The Block Development Officer
Bilaunji, Waidhan – Singrauli.

सरपंच
ग्राम पंचायत क्षेत्र 12 कर्सुआलाल
जनपद पंचायत वैडन
जिला-सिंगरौली (मध्य प्रदेश)
Sarpanch/Mukhiya/Sachiv
Gram Panchyat- Karsualal
Tahsil- Mada, Dist.- Singrauli
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