

Power

Ref: APL/Mahan/EMD/EC/MoEFCC/245/11/23 Date- 27.11.2023

Τo,

Additional Principal Chief Conservator of Forest (APCCF) Ministry of Environment, Forest and Climate Change Regional Office, Western Region 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 for Mahan Thermal Power Plant at Village Bandhaura, District Singrauli, Madhya Pradesh.
- **Ref:** Environmental clearance letter no. **J-13011/56/2006-IA.II (T)** Dated- 20.04.2007 & Its subsequent amendment vide letter dated 10.02.2009, 23.08.2013 and 08.04.2016.

Dear Sir,

With reference to above subject, please find enclosed herewith Six-Monthly Environment Clearances (EC) compliance status report along with Environmental monitoring reports as Ambient Air Quality, Water Quality, Noise level & Soil quality, CAAQM data, Met. data, Greenbelt development, Fly ash & CSR Report etc. for the period of **April'2023 to September'2023** in soft (**e-mail**).

This is for your kind information & record please.

Thanking You, Yours faithfully, for **Mahan Energen Ltd.**

(Santosh Kumar Singh) Authorized Signatory

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

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Member Secretary,

Bhopal, MP

Madhya Pradesh Pollution Control Board

Paryavaran Parisar, E-5, Arera Colony,

Registered Office: Lower Ground Floor, Hotel Conclave Boutique, A-20, Kailash Colony, New Delhi 110 048, Delhi, India

SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE (EC)

For

1200 (2x600) MW Thermal Power Plant

At

Village Bandhaura, Tehsil Mada, District Singrauli, Madhya Pradesh

Submitted to:

Integrated Regional Office, Bhopal Ministry of Environment & Forest & Climate Change Central Pollution Control Board, New Delhi & 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'2023 to September'2023

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Introduction:

Mahan Energen Limited is operating 2x600 MW Coal based Thermal Power Plant situated at Villages Bandhaura, Khairahi, Karsualal and Nagwa in Singrauli District of Madhya Pradesh.

The Environmental Clearance for the project with capacity 4x500 MW was accorded on 20.04.2007 and the same was amended for change in capacity & unit size (3x600 MW) on 10.02.2009. Further, an amendment to the EC for change in source of Coal from domestic to import and road transportation of coal for period of exceeding three years was accorded on 23.08.2013. An amendment in EC on 08.04.2016.

Adani Power Limited has implemented the Approved Resolution Plan and acquired 100% of paid-up share capital and management control of EPMPL on **16.03.2022**. "Mahan Energen Limited" is wholly owned subsidiary of Adani Power Limited and incorporated under Companies (Incorporation) Rules, 2014 date 25.03.2022.

Environment Clearance is transferred from Essar Power (MP) Limited to Mahan Energen Limited vide F. No. J-13011/56/2006-IA-II(T) dated; 15th September' 2022

MoEFCC, New Delhi has amended in the Environmental Clearance (EC) in CONDITION NO. (xxxi) vide F. No. J-13011/56/2006-IA-II(T) dated; 16th July' 2023.

Further, Environmental Clearance has been granted by MoEFCC, New Delhi for **Expansion** of Bandhaura Thermal Power Plant by **2x800 MW vide F. No. J-13011/56/2006-IA.II (T), EC Identification No. EC23A004MP195224 on dated: 27th July'2023** under the provision of EIA Notification dated 14th September'2006 and amendments.

Consent to Establish (CTE) also granted for expansion of TPP from Madhya Pradesh Pollution Control Board (MPPCB) vide Consent No. 58920 dated: 27.09.2023.

Mahan Energen Limited

COMPLIANCE STATUS ON ENVIRONMENTAL CLEARANCE 1200 (2×600) MW Coal Based Thermal Power Plant

Vide letter No. J-13011/56/2006-IA.II (T) dated 20.04.2007 and its subsequent amendment dated 10.02.2009: 23.08.2013, 08.04.2016. and EC transferred from Essar Power to Mahan Energen Ltd. on 15.09.2022, Amendment in EC dated 16.07.2023.

Α	Specific Condition	Status
(i)	The total land requirement shall not exceed 700	
	ha for all activities/ facilities of the power project put together.	All project activities/Facilities of the Power Project have been developed within 700 ha
		only.
(ii)	Forestry clearance for diversion of 70 ha forest	-
	land involved in the project shall be obtained	The forest area is optimised to 34.98 ha now.
	before starting construction on the forest land.	Stage-1 FC has been obtained from MoEFCC
		vide letter no.6-MPC 043/2008-BHO/822 dated. 02.04.2009 and final diversion of land
		does not proceed.
		No construction activities have been taken
()		place in the forest land.
(iii)	R&R in sufficient detail shall be finalized before	Complied
	award of the project and a copy of the detailed R&R shall be submitted to MoEF within three	As previous, R&R Benefits are being provided as per Madhya Pradesh R&R policy 2002 and in
	months of the issue of this letter or before the	line with agreement executed on 18.10.2008
	award of the project whichever is earlier.	between Collector, Singrauli and EPMPL.
		Copy of the agreement with MP Govt. has been
		forwarded to MoEFCC vide our letter no. EPMPL/ MoEFCC/ 07.07.2010.
		Adani Power Limited has implemented the
		Approved Resolution Plan and acquired 100%
		of paid-up share capital and management
		control of EPMPL on 16.03.2022. "Mahan
		Energen Limited" is wholly owned subsidiary of Adani Power Limited
(iv)	The PAFs/ PAPs losing their homesteads, or a	
	major portion of the land shall not be ousted	
	from the land till they are settled at the alternate	dated; 05.09.2007 has been done. All
	sites.	payments as per the demand received from the
		state government & local administration have been made, plots allotted to all the
		homesteads. Supporting documents already
		submitted with EC compliance report.
(v)	Ash and sulphur content in the coal to be used	
	in the project shall not exceed 35% and 0.5%	
	respectively.	maintained below 35% & 0.5% respectively. MEL Power Plant is based on Pit head TPP and
		all parameters are being achieved as per
		notification.

(vi)	Two bi-flue stacks of 275m height each shall be provided with continuous online monitoring equipment. Exit velocity of at least 25m/sec shall be maintained	Complied One bi-flue stack of 275 M height has been installed. Also, CEMS (Continuous emission monitoring system) has been provided for both units. Exit velocity is maintained > 25m/s. Stack emission monitoring Report is enclosed as Annexure-I.
(vii)	High efficiency electrostatic precipitators (ESPs) with efficiency not less than 99.9% shall be installed to ensure that particulate emission does not exceed 100 mg/Nm3.	Complied ESP (9 Fields) with efficiency of 99.9% installed in both the units to meet permissible norm for particulate emissions less than 50 mg/Nm3. Stack Emission Monitoring Report has been provided as Annexure – I.
(viii)	Space provision shall be made for Flue Gas De- sulphurisation (FGD) unit, if required at a later stage.	Complied Space for FGD has been provided in the adjacent to chimney. As per MoEFCC Notification dated 5 th Sep 2022, Mahan TPP is falling under Category "C" Non- retiring TPPs and the timelines for compliance of SO2 emission is up to December'2026.
(ix)	Low NOx burners shall be provided.	Complied Low NOx burners have already been provided in each boiler.
(x)	Adequate dust extraction system such as bag filters and water spray system in dusty areas such as coal and ash handling areas, transfer areas and other vulnerable areas shall be provided.	Compiled Dust extraction systems over fly ash silo, coal bunkers and conveyor junction points have been installed. Dry fog diffusion systems have already been provided in coal crusher house and conveyor transfer points. Water sprinkling system & Mobile Fog Cannon has been provided in coal yard area.
(xi)	Fly ash shall be collected in dry form and ash generated shall be used in a phased manner as per provisions of the notification on Fly Ash Utilization issued by the Ministry in September, 1999 and its amendments. By the end of 9th year full fly ash utilization should be ensured. Unutilized ash shall be disposed of in the ash pond in the form of High Concentration Slurry.	Complied. MoUs / Agreements have been signed with Cement Industries as M/s Prism Johnson Limited Cement and M/s Birla Corporation India Limited (BCIL) to lift the fly ash generated from the power plant. We have also signed a MOU with "Ashtech (India) Private Ltd." for lifting the Ash being generated from the Power Plant. Only unutilized Ash is being sent to Ash dyke / pond. Ash generation and utilization report is enclosed as Annexure- IV.
(xii)	Ash pond shall be lined with HDPE geo-synthetic membrane to avoid leaching. Adequate safety	Complied HDPE lining has been provided in the ash pond. The ash pond operates with HCSD system.

	measures shall be implanted to protect the ash pond bund from getting breached.	Adequate safety measures such as proper bund slope, toe drain around the dyke, etc.,
		have been taken to protect the bund.
(xiii)	A conservation plan for Schedule-1 animals reported in the study area of the project shall be prepared in consultation with an expert organization like Wildlife Institute of India at Dehradun and duly approved by State Wildlife Department of Madhya Pradesh. A copy of the same shall be submitted to the ministry and Regional Office at Bhopal within six months of the date of issue of this letter. The plan so prepared shall be implemented effectively. Necessary allocation of funds for the same shall be made and will be included as project cost.	Ecological Assessment and Flora & Fauna Wildlife Conservation & Management Plan has been prepared by M/s. Good Earth Enviro Care in Association with Department of Environment Management, Indian Institute of Social Welfare & Business Management, Kolkata and report is submitted to PCCF – WL, Bhopal vide letter no APL/MEL/Env/ PCCF/ 407/23 dated; 03.04.2023.
(xiv)	Rain water harvesting shall be practiced. A detailed scheme for rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority/ State Ground Water Board and a copy of the same shall be submitted within 3 months to the Ministry.	
(xv)	The treated effluents conforming to the prescribed standards only shall be discharged in the Bhalea nallah.	Complied.
(xvi)	Regular monitoring of ground water in and around the ash pond area shall be carried out, records maintained, and periodic reports shall be furnished to the Regional Office of the Ministry.	Regular monitoring of ground water is being
(xvii)	A 100 m wide green belt shall be developed all around the plant area and 20 m wide green belt	

	shall be developed all around the ash pond and township covering a total area of 100 ha.	Greenbelt is already developed over an area of 121.21 ha. However, some casualties were noted by the IRO and all casualty replacement Is already been done. Greenbelt report is enclosed as Annexure- II .
(xviii)	First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Complied
(xix)	Leq of Noise Level should be limited to 75 dBA and regular maintenance of equipment to be undertaken. For people working in high noise areas, personal protection devices should be provided.	Leq of noise level at project boundary is being monitored and observed less than 75 dB(A).
(xx)	Regular monitoring of the ambient air quality shall be carried out in and around the power plant and records maintained. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry.	Online CAAQ monitoring system for Ambient air quality is already established. Ambient Air Quality Monitoring is also being carried out by third party consultant.
(xxi)	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned, informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board/ Committee and may also be seen at website of the Ministry of Environment and Forests at http://www.envfor.nic.in.	
(xxii)	A separate environment monitoring cell (EMC) with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.	Complied We have established separate environmental monitoring cell with well qualified staff to carry out regular surveillance for implementation of stipulated environmental safeguards
(xxiii)	A half yearly report on the status of implantation of the stipulated conditions and environmental safeguards should be submitted to this Ministry, its Regional Office at Bhopal, CPCB and SPCB	Complied Six monthly compliance reports are being submitted regularly. Last compliance report for the period of October'2022- March '2023 submitted vide

		letter no. APL/EPMPL/EMD/EC/ MoEFCC/207/
		05/23 dated 23.05.2023.
(xxiv)	Regional Office of the Ministry of Environment	Complied.
	& Forests located at Bhopal will monitor the	All necessary information forwarded to the
	implementation of the stipulated conditions. A	MoEFCC Regional Office, Bhopal on regular
	complete set of documents including Impact	basis.
	Assessment Report and Environment	
	Management Plan along with the additional	
	information submitted from time to time shall be	
	forwarded to the Regional Office for their use	
	during monitoring.	
(xxv)	Separate funds should be allocated for	Complied
()	implementation of environmental protection	
	measures along with item-wise break-up. This	
	cost should be included as part of the project	
	cost. The funds earmarked for the environment	
	protection measures should not be diverted for	
	other purposes and year-wise expenditure	
(saadi)	should be reported to the Ministry.	Full as approxime Q support is bains sytesday
(xxvi)	Full cooperation should be extended to the	
	scientists/ officers from the Ministry/ Regional	to all the Govt visiting officials always.
	Office of the Ministry at Bhopal/ the CPCB/ the	
	SPCB who would be monitoring the compliance	
	of environmental status.	
	EC Amendment vide letter no. J-13011/56/2006	· · · · · · · · · · · · · · · · · · ·
(xxvii)	The project proponent shall upload the status	•
	of compliance of the conditions stipulated in the	
	environmental clearance issued vide this	0
	Ministry's letter of even no. dated	
	20.04.2007. in its website and updated	
	•	
	periodically and also simultaneously send the	
	•	
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(xxviii)	periodically and also simultaneously send the same by e-mail to the Regional Office of the	
(xxviii)	periodically and also simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and Forests.	Complied.
(xxviii)	periodically and also simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and Forests. Criteria pollutants levels including NOx, RSPM	Complied. Criteria pollutants levels including NOx, RSPM
(xxviii)	periodically and also simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and Forests. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack &	Complied. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack &
(xxviii)	periodically and also simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and Forests. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) shall be regularly monitored and results displayed in your website and also at	Complied. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) being regularly monitored, and
(xxviii)	periodically and also simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and Forests. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) shall be regularly monitored and	Complied. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) being regularly monitored, and results are displayed at the main gate of the
(xxviii)	periodically and also simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and Forests. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) shall be regularly monitored and results displayed in your website and also at	Complied. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) being regularly monitored, and results are displayed at the main gate of the Power Plant & same being submitted to
(xxviii)	periodically and also simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and Forests. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) shall be regularly monitored and results displayed in your website and also at	Complied. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) being regularly monitored, and results are displayed at the main gate of the Power Plant & same being submitted to concern authorities.
(xxviii)	periodically and also simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and Forests. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) shall be regularly monitored and results displayed in your website and also at	Complied. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) being regularly monitored, and results are displayed at the main gate of the Power Plant & same being submitted to concern authorities. Monthly Env. Monitoring are being done by
(xxviii)	periodically and also simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and Forests. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) shall be regularly monitored and results displayed in your website and also at	Complied. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) being regularly monitored, and results are displayed at the main gate of the Power Plant & same being submitted to concern authorities. Monthly Env. Monitoring are being done by third party also and report is being sent to
(xxviii)	periodically and also simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and Forests. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) shall be regularly monitored and results displayed in your website and also at	Complied. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) being regularly monitored, and results are displayed at the main gate of the Power Plant & same being submitted to concern authorities. Monthly Env. Monitoring are being done by third party also and report is being sent to pollution control board on monthly basis.
(xxviii)	periodically and also simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and Forests. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) shall be regularly monitored and results displayed in your website and also at	Complied. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) being regularly monitored, and results are displayed at the main gate of the Power Plant & same being submitted to concern authorities. Monthly Env. Monitoring are being done by third party also and report is being sent to pollution control board on monthly basis. Environmental monitoring report is enclosed
	periodically and also simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and Forests. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) shall be regularly monitored and results displayed in your website and also at the main gate of the power plant	Complied. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) being regularly monitored, and results are displayed at the main gate of the Power Plant & same being submitted to concern authorities. Monthly Env. Monitoring are being done by third party also and report is being sent to pollution control board on monthly basis. Environmental monitoring report is enclosed as Annexure-I.
(xxviii) (xxix)	periodically and also simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and Forests. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) shall be regularly monitored and results displayed in your website and also at the main gate of the power plant	Complied. Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) being regularly monitored, and results are displayed at the main gate of the Power Plant & same being submitted to concern authorities. Monthly Env. Monitoring are being done by third party also and report is being sent to pollution control board on monthly basis. Environmental monitoring report is enclosed as Annexure-I. Complied

	Mahadiya /Singrauli Railway Siding to Rajmilan-	Forward e-auction from the nearby Coal mines
	Bandhoura- Power Plant site, over a distance of 63 kms shall be raised by the project	of SECL/NCL.
	proponent at its own cost. The status of implementation shall be submitted to the Regional Office of the Ministry.	being done through Mahadiya Coal siding .
(xxx)	It shall be ensured that only mechanized covered trucks are used for imported coal transportation.	Complied The transportation by road is done through mechanically covered trucks to the extent possible, else through tarpaulin covered trucks so as to prevent coal dust dispersion in the atmosphere.
(xxxi)	A long term study of radioactivity and heavy metals contents on coal to be used shall be carried out through a reputed institute once the power plant becomes operational. Thereafter mechanism for all in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	Domestic Coal are being used for power generation for Mahan TPP. Periodical coal and ash analysis are being carried out through a reputed institute. M/s Bhabha Atomic
(xxxii)	The recommendation of the Central Electricity Authority issued vide it's letter no. 159/100ITP&I/CEA/2011, dated 01.02.2013, on the feasibility of transportation of coal from Mahadiya Railway Siding to Mahan TPP site shall be implemented.	Transportation of the coal is not being done from Mahadiya Railway siding.
(xxxiii)	The project proponent shall maintain a log book of imported coal and Bill of Imports for coal to establish that the coal used for the power project are additional coal coming to the country. These documents shall be submitted to the Regional Office of the Ministry from time to time.	through Forward e-auction from the nearby coal mines as NCL & SECL.
	EC Amendment vide letter no. J-13011/56/2006	-IA.II (T) dated 08.04.2016

(xxxiv)	The Sulphur and ash contents of domestic coal shall not exceed 0.5% and 35 % respectively. The coal shall be sourced through e-auction only in case of emergency and non-viability of imported coal. In case of variation of quality at any point of time, fresh reference shall be made to the Ministry for suitable amendments to the environmental clearance. However, for the imported coal, the ash and sulphur contents will be as specified in the earlier order.	Complied Mahan Energen Limited currently procuring coal through domestic sources only. Ash and Sulphur and ash content in the coal is being maintained below 35% & 0.5% respectively and also being complied as per notification of Pit head based TPP .
(xxxv)	The road transportation shall be restricted to the route as approved earlier vide amendment dated 23.08.2013.	Compiled Road transportation is being done as per the local administration instruction/approved route only and with mechanically covered truck and with instruction of Local Administration. Feasibility study and survey has been completed from Gajara Bahara Railway Siding to Mahan TPP. Schedule/timeline for installation of coal Pipe Conveyor belt from Gajara Bahara Railway Siding to TPP is already submitted.
(xxxvi)	The transportation by road shall be through mechanically covered trucks to the extent feasible, else through tarpaulin covered trucks so as to prevent coal dust dispersion in the atmosphere.	Compiled & followed. Transporting of the coal is being done through trucks covered with tarpaulin with proper sealing arrangement as per the MoEFCC and local authority direction.
(xxxvii)	Harnessing solar power within the premises of the plant particularly at available roof tops shall be carried out and status of implementation including actual generation of solar power shall be submitted along with half yearly monitoring report.	>100 Nos. Solar Power streetlights has been installed within the plant premises. We have already installed Solar Power Panels
(xxxviii)		Regular monitoring of surface water quality is being carried out on regular basis. Record are maintained & also report are sent to the Regional Office of the Ministry, CPCB &
(xxxix)	No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up / operation of the power plant	Complied There is no disturbance caused to any water body including natural drainage system in the area due to operation of the plant

(xl)	CSR schemes identified based on need-based assessment shall be implemented in consultation with the village Panchayat and the District Administration starting from the development of project itself. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken. Company shall provide separate budget for community development activities and income generating programs.	Compiled & being followed. CSR activities / programs are totally based on the need of the community having special focus on livelihood generation, health and education. Separate budget is allocated for CSR programs. For livelihood restoration of displaced people monthly sustenance allowance (Bhatta) is being given to PAPs. Local youths are also engaged under different contractors working inside the plant to provide them relevant training, exposure & livelihood. CSR progress report is enclosed as Annexure- V .
(xli)	For proper and periodic monitoring of CSR activities, a CSR committee or a Social Audit committee or a suitable credible external agency shall be appointed. CSR activities shall also be evaluated by an independent external agency. This evaluation shall be both concurrent and final.	Being Complied & compliance assured on regular basis. CSR activities are implemented in consultation and collaboration with nearby community & Panchayats leader as well as District Administration. Regular community meetings are organised in all the villages to understand the issues of community. Social development activities have been carried out for Need Based under the CSR activities by Adani Foundation .
(xlii)	An Environmental Cell comprising of at least one expert in environmental science/ engineering, ecology, occupational health and social science, shall be created preferably at the project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the Head of the Cell shall directly report to the Head of the Plant who would be accountable for implementation of environmental regulations and social impact improvement/mitigation measures.	Complied We have established separate environmental monitoring cell with well qualified staff to carry out regular surveillance for implementation of stipulated environmental safeguards.
	EC Transferred from Essar to Mahan Energen L	imited on dated 15 th September 2022
1.	2X600 MW Mahan Super Thermal Power Project at Tehsil Mada, District- Singrauli (Madhya Pradesh)- Transfer of environmental clearance from M/s Essar Power (M.P.) Ltd. to M/s Mahan Energen Limited-reg This has reference to your online proposal no. IA/MP/THE/269676/2022 dated 26 th April 2022 regarding transfer of the Environmental clearance (EC) for the above said project from M/s Essar Power (M.P.) Ltd to M/s Mahan Energen Limited .	Noted

2		Nishad
2.	The ministry had earlier issued EC for 4x200 MW	
	Mahan super thermal power project at tehsil	
	Mada, District- Singrauli (Madhya Pradesh) in	
	favour of M/s Essar Power (M.P.) Limited vide	
	letter dated 20 th April 2007, the said EC was	
	further amended vide letter 10 th Feb 2009, 23 rd	
	August'2013 and 18 th April'2016 for reducing the	
	power generation capacity to 3 x 600 MW,	
	changing the fuel source and extending the	
	validity of EC.	
3.	As per details submitted by the PP the M/s Essar	Noted
	Power (M.P.) Limited (earlier owner) could	
	achieve the capacity of $2 \times 600 = 1200$ MW only	
	within the validity period of EC i.e.,19.04.2017	
	against the EC generated (reduced the capacity	
	3x 600 MW) by the Ministry to the aforesaid	
	plant. Accordingly, CTO was obtained from SPCB	
	vide letter dated 30.08.2016 from	
	commissioned capacity i.e. 2 x 600 MW.	
4.	M/s Mahan Energen Limited has informed that	Noted & agreed.
	the unit of M/s Essar power M P Limited was	
	admitted into the corporate Insolvency	
	Resolution process (CIRP) vide order dated	
	29.09.2020 passed by National Company Law	
	Tribunal New Delhi and M/s Adani Power Ltd has	
	acquired 100% paid share capital and	
	Management control of M/s Essar power (M.P.)	
	Ltd, and thus necessitating transfer of al	
	requisite approvals in the name of M/s Mahan	
	Energen Limited.	
5.	M/s Mahan Energen Limited has submitted and	Noted and being complied.
	affidavit to abide by the terms and conditions	Environment clearance 20 th April 2007 and its
	stipulated in the environmental clearance 20 th	subsequent amendments dated 10 th February
	April 2007 and its subsequent amendments	2009, 23 rd August 2013 and 08 th April 2016.
	dated 10 th February 2009, 23 rd August 2013 and	
	08 th April, 2016 issued in the name of M/s	
	Mahan Energen Limited.	
6.	As per the relevant provision of the EIA	Noted & agreed.
	Notification 2006, the environmental clearance	
	granted by the ministry vide letter No. J-	
	13011/56/2006-IA-II(T) dated 20 th April 2007	
	and its subsequent amendments dated 10 th	
	February, 2009, 23 rd August, 2013 and 8 th April,	
	2016 to the project 4 x200 MW (3X600 MW	
	reduced capacity) MW Mahan Super Thermal	
	Power Project at Tehsil- Mada, Village-	
	Bandhaura, Nagwa, Karsualal and Khairahi,	
	District- Singrauli, Madhya Pradesh is hereby	
L		1

	transferred from M/s Essar power (M.P) Limited	
	to M/s Mahan Energen Limited, with the	
	condition that the aforesaid power plant will be	
	operated on the power generation capacity 2	
	x600 MW Further expansion shall be taken up	
	only after prior Environmental Clearance under	
	the vision of the EIA Notification, 2006, as	
	amended. The other terms and condition as	
	mentioned in the initial Environmental	
	Clearance and its further amendments shall	
	remaining unchanged.	
7.	This issued with approval of the competent	Noted.
	authority.	



Dated 16/07/2023

File No.: J-13011/56/2006-IA.II(T) Government of India Ministry of Environment, Forest and Climate Change IA Division ***





To,

10,		
	Shri RN Shukla	
	M/s ESSAR POWER M P LIMITED	
		Delhi , Bandhaura, Nagwa, Karsualal and Khairahi,,
	SINGRAULI, MADHYA PRADESH, Mahan T	
	env.epmpl@gmail.com	
	S D Martin	
Subject:	2x600 MW Mahan Super Thermal Power	Plant at village Bandhaura, Tehsil Mada, District
	Singrauli, Madhya Pradesh by Mahan E	nergen Limited - Amendment in Environmental
	Clearance (EC) – reg.	
Sir/Mada <mark>m,</mark>		
Shriviadani,	This is in reference to your application	submitted to MoEF&CC vide proposal number
		r grant of an amendment in Environmental Clearance
	(EC) to the project under the provision of the EL	
	S Potects of Sk	215 111
		·
	2. The particulars of the proposal are as below :	-EN S
	C GRI	e e la construction de la constr
	() FO Identification No.	
	(i) EC Identification No.	EC23A0601MP5554545A
	(ii) File No.	J-13011/56/2006-IA.II(T)
	(iii) Clearance Type (iv) Category	Amendment in EC
	(v) Schedule No./ Project Activity	1(d) Thermal Power Plants
	(vi) Sector	Thermal Projects
	('') No	2x600 MW Mahan Super Thermal Power Plant at
	(vii) Name of Project	Village Bandhaura Nagwa Karsualal and Khairahi Tehsil Mada District Singrauli Madhya Pradesh
	(viii) Location of Project (District, State)	SINGRAULI, MADHYA PRADESH
	(ix) Issuing Authority	MoEF&CC
	(x) EC Date	20/04/2007 NO
	(xi) Applicability of General Conditions	
	(xiii) Status of implementation of the project	

3.The Environmental Clearance (EC) granted by the Ministry vide letter dated 20.04.2007 for the 4x500 MW Mahan Super Thermal Power Plant at village Bandhaura, Tehsil Mada, District Singrauli, Madhya Pradesh by Mahan Energen Limited. Further, the Ministry vide letter dated 10.02.2009 has changed the capacity from 4x500 MW to 3x600 MW, followed by amendment in EC dated 23.08.2013 and 8.04.2016. The Ministry has also transferred the EC vide letter dated 15.09.2022 from M/s Essar Power (M.P.) Ltd to M/s Mahan Energen Limited.

4.PP submitted proposal for amendment in Environmental Clearance for amendment in Condition no. (xxxi) of mechanism for in-built continuous monitoring for radio activity and heavy metals in coal and fly ash. The amendment has been sought with the details are attached at **Annexure A**.

5.The proposal was considered by the EAC (Thermal power projects) in its 40th meeting held on 25.04.2023. The EAC after detailed deliberation on the information submitted **recommended** the proposal for proposed amendment.

6.Based on recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords approval for amendments in the environmental clearance dated 20.04.2007 as stated in para 4 above, for the project 2x600 MW Mahan Super Thermal Power Plant at village Bandhaura, Tehsil Mada, District Singrauli, Madhya Pradesh by Mahan Energen Limited.

7.All other terms and conditions stipulated in the environmental clearance dated 20.04.2007 shall remain unchanged.

8. This issues with approval of the competent authority.

Annexure 1

Standard EC Conditions for (Thermal Power Plants)

1 Air quality monitoring and Management

Sr. No	Conditions
1.1	NA COREEN ST

Annexure 2

Amendment Logs

Description	Reference	Existing	Proposed / Amendment	Reason
NA	NA	NA	NA	NA

Copy To

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, NewDelhi - 110 001.

2. The Chairman, Central Electricity Authority, SewaBhawan, R. K. Puram, New Delhi - 110 066.

3. The Deputy Director General of Forests, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road No.3, Ravishankar Nagar, Bhopal –462 016. 4. The Secretary, Department of Environment, Government of Madhya Pradesh, Secretariat, Bhopal.

5. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, EastArjun Nagar, Delhi - 110 032.

6. The Member Secretary, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal – 462016.

7.Guard file/Monitoring file/Website of MoEF&CC.



S. No.	Details as per EC	Amendment sought	Justification
1.	Amendment in Office Order	A long-term study of	For provision of In-
	dated 23.08.2013 Condition	radioactivity and	built mechanism for
	no. (xxxi) "A long-term study	heavy metals	continuous
	of radioactivity and heavy	contents on coal to be	monitoring for
	metals contents on coal to be	used shall be carried	radioactivity and
	used shall be carried out	out through a reputed	heavy metals in coal
	through a reputed institute once	institute once the	and fly ash (including
	the power plant becomes	power plant becomes	bottom ash), the
	operational. Thereafter	operational.	technology and
	mechanism for all in-built	Thereafter	monitoring
	continuous monitoring for	mechanism for all in-	instrument is not
	radio activity and heavy metals	built periodical	available with the
	in coal and fly ash (including	monitoring for radio	suppliers in the
1 8	bottom ash) shall be put in	activity and heavy	Country and is also
	place"	metals in coal and fly	technically not
		ash (including	feasible to monitor in
		bottom ash) shall be	this mechanism.
	7 14	put in place"	

-Payments





Mahan Energen Limited Summary of Environmental Monitoring Report Period from April'2023 to September'2023

	Ambient Air Quality Monitoring Results													
Loca	ation	Nea	ar Admin	Buildi	ng	N	ear Gat	e No. 2	2	Ν	ear Gate	e No. 3	5	
Month	Date	PM-10	PM-2.5	S02	NO2	PM-10	PM-2.5	S02	NO2	PM-10	PM-2.5	S02	NO2	
& Year	Permissible		Jnit-µg/N				Unit-µg/				Unit-µg/			
	Limit	100	60	80	80	100	60	80	80	100	60	80	80	
	03.04.2023	62.0	34.2	12.7	22.8	66.2	38.3	13.4	20	53.2	29.6	12.7	24.4	
	06.04.2023	67.9	35.8	14.1	24.3	71.4	39.2	12.7	23.8	56.5	28.7	11.9	21.8	
	10.04.2023	61.5	33.3	13.9	24.7	64	31.2	16.6	24.5	60.5	34.6	13.4	23.5	
	13.04.2023	66	35.4	13.4	22	67.3	37.0	15.19	20.9	61.2	31.2	14.3	21.6	
April-23	17.04.2023	67.3	36.7	14.7	23.3	68.7	37.9	16.3	25.8	58.3	30.4	12.4	23.5	
	20.04.2023	65.4	33.7	12.7	24.7	72.5	40	13.7	24.5	52	29.4	13.1	21	
	24.04.2023	67.1	34.6	13.7	22.7	74.1	36.2	14	26.3	54.8	30.2	11.8	22.5	
	27.04.2023	63.9	35.8	12.7	21.6	66.9	33.3	15	25.8	61.8	32.1	12.3	20.3	
	Avg. Value	65.1	34.9	13.5	23.3	68.9	36.6	14.6	24.0	57.3	30.8	12.7	22.3	
	02.05.2023	65.8	36.2	13.8	21.6	68.6	36.9	14.0	22.5	59.6	31.7	13.1	22	
	05.05.2023	69.5	37.8	15.2	22.8	72.8	38.8	14.8	22.6	61.5	32.5	14.4	24	
	08.05.2023	64.3	33.9	12.9	20.9	65.4	33.6	12.9	20.9	64	34.2	12.5	21.4	
	11.05.2023	68.5	35.2	15.2	22.5	68.2	35.9	14.1	22.1	59.2	30.9	13.8	21.6	
	15.05.2023	62.5	34.2	13.7	21.1	71.6	39.5	15.3	23.2	53.1	29.5	11.3	20.7	
May-23	18.05.2023	66.1	35.8	16.3	23.5	68.9	37.6	13.2	21.9	56.7	31.8	14.8	22.4	
	22.05.2023	65.7	33.1	12.6	21.5	73.4	41.2	12.7	20.8	53.9	30.6	12.2	21.2	
	25.05.2023	66.8	34.6	13.3	20.9	69.5	35.6	14.5	23.2	62.6	33.5	13.3	20.7	
	29.05.2023	67.2	33.4	14.8	20.2	68.5	32.9	12.6	21.7	61.2	31.2	12.6	19.9	
	Avg. Value	66.3	34.9	14.2	21.7	69.7	36.9	13.8	22.1	59.1	31.8	13.1	21.5	
	01.06.2023	66.9	36.2	15.1	22.4	66.1	34.2	13.7	19.9	63.9	33.3	12.9	21.5	
	05.06.2023	66.7	34.6	14.7	21.0	63.7	31.8	12.9	18.2	66.5	34.6	14.7	22.3	
	08.06.2023	63.4	32.9	14.0	19.9	68.7	35.4	13.2	20.4	63.0	32.5	12.8	21.3	
	12.06.2023	66.3	34.2	13.5	20.7	64.2	33.3	12.0	18.4	67.5	35.0	13.9	22.4	
hua c 07	16.06.2023	62.6	32.5	12.8	19.9	67.5	34.1	13.6	20.6	63.0	32.9	14.6	23.2	
June-23	19.06.2023	60.4	31.2	12.0	18.7	70.3	36.2	14.2	22.1	65.6	34.2	15.2	19.2	
	22.06.2023	63.7	33.3	13.2	20.1	66.7	33.9	12.8	20.2	61.5	32.1	14.4	21.6	
	26.06.2023	67.2	35.0	14.8	21.4	69.5	35.2	13.5	21.4	62.8	30.4	13.6	21.0	
	29.06.2023	65.4	32.4	12.4	18.6	68.5	30.5	14.1	20.8	65.9	29.8	15.4	20.2	
	Avg. Value	64.7	33.6	13.6	20.3	67.2	33.8	13.3	20.2	64.4	32.8	14.2	21.4	



Mahan Energen Limited

Annexure-I

								1					
	10.07.2023	40.0	23.6	9.8	14.3	43.3	24.1	12.4	18.4	44.6	20.2	13.0	17.6
	13.07.2023	33.9	18.5	10.4	11.8	47.7	21.9	14.7	19.6	50.9	22.4	15.3	18.6
	17.07.2023	43.5	17.6	11.6	19.0	51.7	23.9	14.0	20.5	55.9	23.8	15.7	21.1
July-23	20.07.2023	54.0	21.1	13.9	17.0	62.9	26.4	16.3	22.0	59.0	25.2	17.3	25.1
5019-25	24.07.2023	61.1	28.8	14.2	17.5	70.5	28.3	16.7	20.9	71.0	29.4	18.0	24.2
	27.07.2023	53.8	24.1	12.9	15.6	57.0	24.7	13.3	21.4	59.3	21.7	13.1	18.7
	31.07.2023	45.1	19.5	9.4	15.1	50.3	17.3	11.2	13.3	48.0	16.5	10.7	14.0
	Avg. Value	47.4	21.9	11.7	15.8	54.8	23.8	14.1	19.4	55.5	22.7	14.7	19.9
	01.08.2023	45.7	21.3	8.9	16.6	48.1	19.7	11.6	19.4	45.2	23.2	10.1	16.9
	04.08.2023	36.3	19.8	11.7	15.5	51.0	22.2	13.6	16.6	46.9	21.4	13.2	13.5
	07.08.2023	44.6	19.5	9.5	17.9	49.4	21.9	9.9	18.0	44.4	22.5	10.0	19.7
	11.08.2023	54.6	22.5	15.4	19.3	60.5	24.1	16.2	21.6	48.5	21.6	8.2	18.0
	14.08.2023	44.3	18.5	13.7	15.3	48.3	19.6	14.8	16.9	49.2	20.0	12.2	17.0
Aug-23	17.08.2023	33.6	14.2	9.6	11.7	38.9	15.2	10.1	12.3	43.5	15.7	9.3	12.9
Aug-25	21.08.2023	40.9	16.2	10.6	18.4	49.3	18.1	12.6	20.1	47.3	17.4	15.2	20.1
	24.08.2023	48.2	17.1	9.5	14.7	51.8	17.2	10.4	16.9	42.6	16.9	11.4	13.6
	28.08.2023	53.9	25.0	16.9	23.3	58.5	26.3	17.5	23.9	39.4	19.5	14.4	19.5
	30.08.2023	47.9	23.3	14.8	21.6	49.8	23.5	15.7	23.6	40.9	20.0	16.0	21.8
	Avg. Value	45.0	19.7	12.1	17.4	50.6	20.8	13.2	18.9	44.8	19.8	12.0	17.3
	04.09.2023	49.0	23.4	10.0	17.1	52.4	23.7	11.3	16.8	43.7	21.8	8.4	14.1
	07.09.2023	42.3	21.9	9.1	14.2	50.6	23.8	14.5	19.1	40.2	23.9	11.0	16.4
	11.09.2023	47.6	25.7	11.2	13.9	53.8	27.6	13.9	17.1	39.8	20.3	12.1	12.7
	14.09.2023	53.0	29.4	13.2	15.8	56.4	30.4	10.8	19.1	42.5	21.9	7.7	11.8
Sept-23	18.09.2023	55.3	27.7	12.2	17.9	57.2	32.5	13.8	15.6	44.5	23.4	10.2	13.8
Sept-25	21.09.2023	46.8	25.0	14.2	18.0	51.5	31.3	15.8	14.5	42.4	20.1	9.7	12.7
	25.09.2023	42.0	20.4	13.0	16.5	49.7	29.6	13.8	18.4	43.1	19.5	13.1	16.1
	28.09.2023	43.1	22.7	15.2	18.4	46.9	27.5	14.2	17.9	39.5	22.7	11.3	13.8
	Avg. Value	47.4	24.5	12.2	16.5	52.3	28.3	13.5	17.3	42.0	21.7	10.4	13.9

	Stack Er	nission I	Monitorii	ng Resull	s (April-2	023 to \$	Sept20	23)			
Loca	ation		Un	nit-1		Unit-2					
	Date of Sampling	PM	S02	NOx	Mercury (Hg)	PM	S02	NOx	Mercury (Hg)		
Month	Sampling		Unit-n	ng/Nm³			Unit-	mg/Nm³			
	Permissible Limit	50	200**	450	0.03	50	200**	450	0.03		
April-23	24.04.2023	41.31	723.00	329.00	BQL (0.01)	44.22	667.00	288.00	BQL (0.01)		
May-23	25.05.2023	43.15	719.00	368.00	BQL (0.01)	45.60	676.00	276.00	BQL (0.01)		
June-23	21.06.2023	38.66	795.74	368.15	BQL (0.01)	37.07	770.71	341.42	BQL (0.01)		
July-23	Unit:1 17.07.2023	44,22	790.00	354.32	BQL	39.71	763.58	285.00	BQL		
301y-23	Unit: 2 29.07.2023	44.22	790.00	J-7.J2	(0.01)	ו ז.עע	705.50	209.00	(0.01)		
August-23	Unit:1 Shutdown		Shut dowr		BQL	42.22	753.00	264.00	BQL		
August-25	Unit:2 22.09.2023			•	(0.01)	72.22	, 20.00	204.00	(0.01)		
Sept23	22.10.2023	44.50	802.52	334.11	BQL (0.01)	41.63	775.18	295.08	BQL (0.01)		

Mahan Energen Limited

** Further As per MoEF&CC notification dated 05th Sep 2022, MEL is a Category "C" TPP and timelines for compliance of SO2 emission is up to 31st December 2026.

Mahan Energen Limited Ground Water Monitoring Results (April-2023 to September-2023)

	Month			April-2023			August-2023	
	Sampling Date			11.04.2023			19.08.2023	
Sr. NO.	Parameters	Unit	Bandhaura Village	Railla Village	Karsuaraja Village	Bandhaura Village	Railla Village	Karsuaraja Village
1	рН @ 25 oC	-	7.36	7.23	7.46	7.54	7.65	7.48
2	Turbidity	NTU	BQL(QL=0.1)	BQL(QL=0.1)	BQL(QL=0.1)	**BLQ(**LOQ-1.0)	**BLQ(**LOQ-1.0)	**BLQ(**LOQ-1.0)
3	Total Dissolved Solids @ 180 OC	mg/L	588.0	462.0	572.0	372.00	338.00	335.00
4	Total Hardness as CaCO3	mg/L	320.0	202.0	282.0	188.00	212.00	206.00
5	Alkalinity as CaCO3	mg/L	265.0	213.30	270.0	156.00	188.00	176.00
6	Calcium as Ca	mg/L	96.59	52.10	63.33	42.00	52.00	58.00
7	Magnesium (Mg)	mg/L	19.20	17.50	30.13	20.22	19.99	14.89
8	Sulphate	mg/L	29.22	54.35	45.97	56.00	38.00	35.00
9	Nitrate	mg/L	2.19	1.09	1.07	10.60	6.50	5.90
10	Iron	mg/L	0.039	0.061	0.118	0.045	0.054	0.017
11	Fluoride	mg/L	BQL(QL=0.1)	BQL(QL=0.1)	BQL(QL=0.1)	0.35	0.42	0.38
12	Sulphide	mg/L	BQL(QL=0.2)	BQL(QL=0.2)	BQL(QL=0.2)	BLQ(QL=0.2)	BLQ(QL=0.2)	BLQ(QL=0.2)
13	Zinc (Zn)	mg/L	0.117	0.124	1.021	0.028	0.038	0.020
14	Chloride	mg/L	174.95	88.97	147.95	82.00	75.00	65.00
15	Residual Chlorine	mg/L	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	BLQ(QL=0.05)	BLQ(QL=0.05)	BLQ(QL=0.05)
16	Colour	Hazen	BQL(QL=1)	BQL(QL=1)	BQL(QL=1)	**BLQ(**LOQ-1.0)	**BLQ(**LOQ-1.0)	**BLQ(**LOQ-1.0)
17	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
18	Mineral Oil	mg/L	BQL(QL=1)	BQL(QL=1)	BQL(QL=1)	BLQ (QL=1)	BQL(QL=1)	BQL(QL=1)
19	Ammonia	mg/L	BQL(QL=0.5)	BQL(QL=0.5)	BQL(QL=0.5)	BLQ(QL=0.5)	BLQ(QL=0.5)	BLQ(QL=0.5)
20	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
21	Chloramines as Cl2	mg/L	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)
22	Cyanide	mg/L	BQL(QL=0.025)	BQL(QL=0.025)	BQL(QL=0.025)	**BLQ(**LOQ-0.02)	**BLQ(**LOQ-0.02)	**BLQ(**LOQ-0.02)
23	Aluminum (Al)	mg/L	BQL(QL=0.02)	BQL(QL=0.02)	BQL(QL=0.02)	**BLQ(**LOQ-0.05)	**BLQ(**LOQ-0.05)	**BLQ(**LOQ-0.05)
24	Arsenic (As)	mg/L	BQL(QL=0.005)	BQL(QL=0.005)	BQL(QL=0.005)	**BLQ(**LOQ- 0.005)	**BLQ(**LOQ- 0.005)	**BLQ(**LOQ- 0.005)
25	Barium as Ba	mg/L	BQL(QL=0.02)	BQL(QL=0.02)	BQL(QL=0.02)	BLQ(QL=0.02)	BLQ(QL=0.02)	BLQ(QL=0.02)
26	Boron (B)	mg/L	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	**BLQ(**LOQ-0.1)	**BLQ(**LOQ-0.1)	**BLQ(**LOQ-0.1)
27	Cadmium (Cd)	mg/L	BQL(QL=0.002)	BQL(QL=0.002)	BQL(QL=0.002)	**BLQ(**LOQ- 0.002)	**BLQ(**LOQ- 0.002)	**BLQ(**LOQ- 0.002)
28	Copper (Cu)	mg/L	BQL(QL=0.02)	BQL(QL=0.02)	BQL(QL=0.02)	**BLQ(**LOQ- 0.002)	**BLQ(**LOQ- 0.002)	**BLQ(**LOQ- 0.002)
29	Lead (Pb)	mg/L	BQL(QL=0.005)	BQL(QL=0.005)	BQL(QL=0.005)	**BLQ(**LOQ- 0.002)	**BLQ(**LOQ- 0.002)	**BLQ(**LOQ- 0.002)
30	Manganese (Mn)	mg/L	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	**BLQ(**LOQ-0.1)	**BLQ(**LOQ-0.1)	**BLQ(**LOQ-0.1)
31	Mercury (Hg)	mg/L	BQL(QL=0.0005)	BQL(QL=0.0005)	BQL(QL=0.0005)	**BLQ(**LOQ- 0.0005)	**BLQ(**LOQ- 0.0005)	**BLQ(**LOQ- 0.0005)
32	Selenium (Se)	mg/L	BQL(QL=0.005)	BQL(QL=0.005)	BQL(QL=0.005)	**BLQ(**LOQ- 0.001)	**BLQ(**LOQ- 0.001)	**BLQ(**LOQ- 0.001)
33	Molybdenum as Mo	mg/L	BQL(QL=0.01)	BQL(QL=0.01)	BQL(QL=0.01)	BLQ(QL=0.01)	BLQ(QL=0.01)	BLQ(QL=0.01)
34	Total Chromium Cr	mg/L	BQL(QL=0.02)	BQL(QL=0.02)	BQL(QL=0.02)	**BLQ(**LOQ- 0.002)	**BLQ(**LOQ- 0.002)	**BLQ(**LOQ- 0.002)
35	Nickel as (Ni)	mg/L	BQL(QL=0.01)	BQL(QL=0.01)	BQL(QL=0.01)	BLQ(QL=0.01)	BLQ(QL=0.01)	BLQ(QL=0.01)
36	Silver (Ag)	mg/L	BQL(QL=0.02)	BQL(QL=0.02)	BQL(QL=0.02)	BLQ(QL=0.02)	BLQ(QL=0.02)	BLQ(QL=0.02)
37	Anionic Detergent	mg/L	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	**BLQ(**LOQ-0.05)	**BLQ(**LOQ-0.05)	**BLQ(**LOQ-0.05)
38	Naphthalene	µg/L	BQL(QL=10)	BQL(QL=10)	BQL(QL=10)	**BLQ(QL=10)	**BLQ(QL=10)	**BLQ(QL=10)
39	E.Coli (MPN/100 ml)	MPN/100ml	Absent	Absent	Absent	Absent	Absent	Absent
40	Total Coliform	MPN/100ml	Absent	Absent	Absent	Absent	Absent	Absent

Mahan Energen Limited

Surface Water Quality Monitoring Results (April-2023 to September-2023)

	Month		April-20)23	August	2023
	Date		11.04.20	023	20.08	3.2023
Sr. NO.	Parameters	Unit	Nr. Gate No. 1	Nr. Gate No. 3	Nr. Gate No. 1	Nr. Gate No. 3
1	рН @ 25 oC	-	7.41	7.35	7.60	7.14
2	Turbidity	NTU	BQL(QL=0.1)	BQL(QL=0.1)	*BQL(**LOQ-1.0)	*BQL(**LOQ-1.0)
3	Total Dissolved Solids @ 180 °C	mg/L	411.0	341.0	319.0	163.0
4	Total Hardness as CaCO3	mg/L	212.0	148.0	208.0	58.0
5	Alkalinity as CaCO3	mg/L	205.0	193.3	176.0	75.0
6	Calcium as Ca	mg/L	62.52	43.29	68.0	10.0
7	Magnesium (Mg)	mg/L	13.61	9.7	9.32	8.03
8	Sulphate	mg/L	28.83	29.41	42.0	10.0
9	Nitrate	mg/L	0.59	0.36	18.50	*BQL(**LOQ-1.0)
10	Iron	mg/L	0.106	0.484	0.024	0.032
11	Fluoride	mg/L	BQL(QL=0.1)	BQL(QL=0.1)	0.32	0.21
12	Sulphide	mg/L	BQL(QL=0.2)	BQL(QL=0.2)	BQL(QL=0.2)	BQL(QL=0.2)
13	Zinc (Zn)	mg/L	0.074	BQL(QL=0.02)	*BQL(**LOQ-0.01)	BQL(**LOQ-0.01)
14	Chloride	mg/L	90.97	58.98	68.0	20.0
15	Residual Chlorine	mg/L	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)
16	Colour	Hazen	BQL(QL=1)	BQL(QL=1)	*BQL(**LOQ-0.1)	*BQL(**LOQ-1.0)
17	Odour	-	Agreeable	Agreeable	Unojectionable	Unojectionable
18	Mineral Oil	mg/L	BQL(QL=1)	BQL(QL=1)	*BQL(**LOQ-0.1)	*BQL(**LOQ-0.1)
19	Ammonia	mg/L	1.40	0.84		
20	Taste	-	Agreeable	Agreeable	Unojectionable	Unojectionable
21	Chloramines as Cl2	mg/L	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)
22	Cyanide	mg/L	BQL(QL=0.025)	BQL(QL=0.025)	*BQL(**LOQ-0.02)	*BQL(**LOQ-0.02)
23	Aluminum (Al)	mg/L	BQL(QL=0.02)	BQL(QL=0.02)	*BQL(**LOQ- 0.005)	0.009
24	Arsenic (As)	mg/L	BQL(QL=0.005)	BQL(QL=0.005)	*BQL(**LOQ- 0.005)	*BQL(**LOQ-0.005)
25	Barium as Ba	mg/L	BQL(QL=0.02)	BQL(QL=0.02)	BQL(QL=0.02)	BQL(QL=0.02)
26	Boron (B)	mg/L	BQL(QL=0.05)	BQL(QL=0.05)	*BQL(**LOQ-0.1)	*BQL(**LOQ-0.1)
27	Cadmium (Cd)	mg/L	BQL(QL=0.002)	BQL(QL=0.002)	*BQL(**LOQ- 0.002)	*BQL(**LOQ-0.002)
28	Copper (Cu)	mg/L	BQL(QL=0.02)	BQL(QL=0.02)	*BQL(**LOQ- 0.002)	*BQL(**LOQ-0.002)
29	Lead (Pb)	mg/L	BQL(QL=0.005)	BQL(QL=0.005)	*BQL(**LOQ- 0.002)	*BQL(**LOQ-0.002)
30	Manganese (Mn)	mg/L	BQL(QL=0.05)	BQL(QL=0.05)	*BQL(**LOQ-0.1)	*BQL(**LOQ-0.1)
31	Mercury (Hg)	mg/L	BQL(QL=0.000 5)	BQL(QL=0.0005)	*BQL(**LOQ- 0.0005)	*BQL(**LOQ-0.0005)
32	Selenium (Se)	mg/L	BQL(QL=0.005)	BQL(QL=0.005)	*BQL(**LOQ- 0.001)	*BQL(**LOQ-0.001)
33	Molybdenum as Mo	mg/L	BQL(QL=0.01)	BQL(QL=0.01)	BQL(QL=0.01	BQL(QL=0.01)
34	Total Chromium Cr	mg/L	BQL(QL=0.02)	BQL(QL=0.02)	*BQL(**LOQ- 0.002)	*BQL(**LOQ-0.002)
35	Nickel as (Ni)	mg/L	BQL(QL=0.01)	BQL(QL=0.01)	BQL(QL=0.01	BQL(QL=0.01)
36	Silver (Ag)	mg/L	BQL(QL=0.02)	BQL(QL=0.02)	BQL(QL=0.0	BQL(QL=0.02)
37	Anionic Detergent	mg/L	BQL(QL=0.05)	BQL(QL=0.05)	*BQL(**LOQ- 0.05)	*BQL(**LOQ-0.05)
38	E.Coli (MPN/100 ml)	MPN/100 ml	Absent	Absent	Absent	Absent
39	Total Coliform	MPN/100ml	Absent	Absent	Absent	Absent



STP Treated Water Test Results

(April'2023 to September'2023)

Location of S	Sewage Treatr	nent Plani	: (STP) : Near A	Admin Building			
				Paramete	rs		
Month	Date	ρН	TSS (mg/L)	BOD (mg/L)	COD (mg/L)	Oil & Grease (mg/L)	
April-23	11.04.2023	7.63	29	17.00	60.00	(QL=2)	
May-23	11.05.2023	7.21	24	14.00	50.00	(QL=2)	
June-23	14.06.2023	6.84	28	15.60	60.00	(QL=2)	
July-23	18.07.2023	7.54	35	15.08	58.82	0.56	
August-23	19.08.2023	7.74	42	17.98	60.25	0.64	
Sept23	16.09.2023	7.57	56	18.46	62.52	0.58	

ETP Treated Water Test Results

(April -2023 to September-2023)

Location of E	ffluent Treatr	ment Plan	t (ETP):			
				Paramete	rs	
Month	Date	ρН	TSS (mg/L)	BOD (mg/L)	COD (mg/L)	Oil & Grease (mg/L)
April-23	11.04.2023	7.56	39	15	50.00	(QL=2)
May-23	11.05.2023	7.12	34	12	40.00	(QL=2)
June-23	14.06.2023	6.92	39	15	50.00	(QL=2)
July-23	18.07.2023	6.70	43	13	52.11	0.38
August-23	19.08.2023	6.30	46	10.22	55.74	0.48
Sept23	16.09.2023	6.30	49	8.9	48.20	0.41



Mahan Energen Limited

			An	nbient	Noise	Monit	oring F	Results	5						
	April-2023 to September-2023														
	Location Admin Gate No.1 Gate No. 2 Gate No. 3														
Month	Date	Duration	Leq dB(A)	Max dB(A)	Min dB(A)										
	04.04.2023	Day	66.3	68.5	60.1	63.1	71.4	59.4	65.5	68.0	62	54.6	56.7	49.3	
April-23	04.04.2025	Night	53.4	56.6	47.2	55.3	57.4	51.9	61.8	63.7	58.6	47.1	50.4	40.3	
AA 07	05.05.0007	Day	63.5	69.3	53.7	61.3	69.2	54.3	60.5	67.4	54.2	56.6	59.3	53.1	
May-23	05.05.2023	Night	54.0	57.3	46.5	54.7	58.2	50.8	56.1	59.6	53.8	57	61.4	51.9	
h	16.06.0007	Day	57.4	60.2	52.9	58.8	67.5	52.3	57.2	65.2	52.8	57.6	59.9	53.6	
June-23	16.06.2023	Night	50.5	57.1	43.1	52.8	56.3	47.6	51.4	54.8	46.3	49.8	53.5	43.2	
haha 07	20.07.2027	Day	62.6	73.4	55.6	68.6	71.2	54.2	64.3	68.1	51	58.0	66.3	48.5	
July-23	20.07.2023	Night	55.3	64.2	52.3	61.9	67.3	49.8	59.4	60.5	47.3	52.4	59.4	41.3	
A 07	10.00.0007	Day	57.4	68.6	46.4	66.8	70.2	52.2	65.2	69.8	51.4	61.2	72.7	56.8	
Aug-23	10.08.2023	Night	50.8	55.3	40.7	59.6	65.9	45.3	56.6	62.2	49.7	53.8	67.1	50.6	
Cook 27	14.00.2027	Day	62.6	67.1	52.6	60.8	73.4	55.3	64.6	74.8	68.5	61.6	68.2	56.8	
Sept23	14.09.2023	Night	55.3	60.5	50.0	52.3	66.5	50.6	57.6	57.2	47.1	50.0	55.4	42.6	

Annexure I

*		Analysis	O Green Mechanis Results For The N te 24 Hourly Monit	fonth of April-23								
Compa	ny Name	Mahan Energ	en Limited									
Sample	Туре	AMBIENT AIR QUALITY MONITORING										
Sample	Description	Near Admin Building										
	Parameters	PM (<10)	PM (<2.5)	SO2	NO ₂	Mercury(Hg						
	Unit	µg/m³	µg/m³	µg/m³	ug/m ³	ng/m3						
Sr. No	Reference Method	IS 5182 part-23	GGMPL/SOP/ AA/60	IS 5182 Part-2	IS 5182 Part-6	Method IO-3.4						
	Norms	100	60	80	80	NS						
	Date of Monitoring											
1	03-04-2023	62.0	34.2	12.7	22.8	BQL (QL=1)						
2	06-04-2023	67.9	35.8	14.1	24.3	BQL (QL=1)						
3	10-04-2023	61.5	33.3	13.9	24.7	BQL(QL=1)						
4	13-04-2023	66.0	35.4	13.4	22.0	BQL(QL=1)						
5	17-04-2023	67.3	36.7	14.7	23.3	BQL (QL=1)						
6	20-04-2023	65.4	33.7	12.7	24.7	BQL (QL=1)						
7	24-04-2023	67.1	34.6	13.7	22.7	BQL (QL=1)						
8	27-04-2023	63.9	35.8	12.7	21.6	BQL (QL=1)						
	AVERAGE	65.1	34.9	13.5	23.3	BQL (QL=1)						

BQL - Below Quantification Limit; Avg. - Average; NS- Not Specified

Norms- As per national Ambient Air Qualiy Standards

Analyes By

Shiyus K.B. Shiyal Kishor

Approved By

J. Pankil Patel



		Analys	GO Green Mechanis is Results For The I ite 24 Hourly Moni	Month of April-23									
Compa	ny Name	Mahan Energe	n Limited										
Sample	Туре	AMBIENT AIR QUALITY MONITORING											
Sample	Description	Near Gate No -	02										
	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	Mercury(Hg)							
	Unit	µg/m³	µg/m³	µg/m³	µg/m³	ng/m3							
Sr. No	Reference Method	IS 5182 part-23	GGMPL/SOP/ AA/60	IS 5182 Part-2	IS 5182 Part-6	Method IO-3.4							
	Norms	100	60	80	80	NS							
	Date of Monitoring												
1	03-04-2023	66.2	38.3	13.4	20.0	BQL(QL=1)							
2	06-04-2023	71.4	39.2	12.7	23.8	BQL(QL=1)							
3	10-04-2023	64.0	31.2	16.6	24.5	BQL(QL=1)							
4	13-04-2023	67.34	37.08	15.19	20.95	BQL(QL=1)							
5	17-04-2023	68.7	37.9	16.3	25.8	BQL(QL=1)							
6	20-04-2023	72.5	40.0	13.7	24.5	BQL(QL=1)							
7	24-04-2023	74.1	36.2	14.0	26.3	BQL(QL=1)							
8	27-04-2023	66.9	33.3	15.0	25.8	BQL(QL=1)							
	AVERAGE	68.9	36.7	14.6	24.0	BQL (QL=1							

Norms- As per national Ambient Air Qualiy Standards

Analyes By Shiyul X.B. Shiyal Kishor

Approved By

ہے۔ Pankil Patel



		Analysis	O Green Mechanis Results For The te 24 Hourly Moni	Month of April-23									
Compa	ny Name	Mahan Energ	C. Sherry and the										
Sample	Туре	AMBIENT AI	R QUALITY MONI	TORING									
Sample	Description	Near Gate No	p-03										
S B	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	Mercury(Hg)							
	Unit	µg/m ³	µg/m³	µg/m ³	µg/m ³	ng/m3							
-	Reference Method	IS 5182 part-23	GGMPL/SOP/ AA/60	IS 5182 Part-2	IS 5182 Part-6	Method IO-3.4							
	Norms	100	60	80	80	NS							
	Date of Monitoring												
1	03-04-2023	53.2	29.6	12.7	24.2	BQL(QL=1)							
2	06-04-2023	56.5	28.7	11.9	21.8	BQL(QL=1)							
3	10-04-2023	60.5	34.6	13.4	23.5	BQL(QL=1)							
4	13-04-2023	61.2	31.2	14.3	21.6	BQL(QL=1)							
5	17-04-2023	58.3	30.4	12.4	23.5	BQL(QL=1)							
6	20-04-2023	52.0	29.4	13.1	21.0	BQL(QL=1)							
7	24-04-2023	54.8	30.2	11.8	22.5	BQL(QL=1)							
8	27-04-2023	61.8	32.1	12.3	20.3	BQL(QL=1)							
	AVERAGE	57.3	30.8	12.7	22.3	BQL(QL=1)							

Norms- As per national Ambient Air Qualiy Standards

Analyes By

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Shiju k.B. Shiyal Kishor

Approved By

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......END.....



		Analys	GO Green Mechanis is Results For The ite 24 Hourly Moni	Month of May-23										
Compa	ny Name	Mahan Energer	n Limited											
Sample	Туре	AMBIENT AIR	AMBIENT AIR QUALITY MONITORING											
Sample	Description	Near Admin Bu	ilding	Contraction of the second										
	Parameters	PM (<10)	PM (<2.5)	SO2	NO ₂	Mercury(Hg)								
	Unit	µg/m³	µg/m³	µg/m³	µg/m³	ng/m3								
Sr. No	Reference Method	IS 5182 part-23	GGMPL/SOP/ AA/60	IS 5182 Part-2	IS 5182 Part-6	Method IO-3.4								
	Norms	100	60	80	80	NS								
	Date of Monitoring													
1	02-05-2023	65.8	36.2	13.8	21.6	BQL(QL=1)								
2	05-05-2023	69.5	37.8	15.2	22.8	BQL(QL=1)								
3	08-05-2023	64.3	33.9	12.9	20.9	BQL(QL=1)								
4	11-05-2023	68.5	35.2	15.2	22.5	BQL(QL=1)								
5	15-05-2023	62.5	34.2	13.7	21.1	BQL(QL=1)								
6	18-05-2023	66.1	35.8	16.3	23.5	BQL(QL=1)								
7	22-05-2023	65.7	33.1	12.6	21.5	BQL(QL=1)								
8	25-05-2023	66.8	34.6	13.3	20.9	BQL(QL=1)								
9	29-05-2023	67.2	33.4	14.8	20.2	BQL(QL=1)								
	AVERAGE	66.3	34.9	14.2	21.7	BQL(QL=1)								

Norms- As per national Ambient Air Qualiy Standards

Analyes By Approved By Shi yu 2 13. Shiyal Kishor J. Pankil Patel

		Analysis	D Green Mechanis Results For The N 24 Hourly Monit	Ionth of May-23										
Compa	ny Name	Mahan Energ	en Limited			The state								
Sample	Туре	AMBIENT AI	AMBIENT AIR QUALITY MONITORING											
Sample	Description	Near Gate No	o - 02											
	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	Mercury(Hg								
	Unit	µg/m ³	µg/m³	µg/m ³	µg/m³	ng/m3								
Sr. No	Reference Method	IS 5182 part-23	GGMPL/SOP/ AA/60	IS 5182 Part-2	IS 5182 Part-6	Method IO-3.4								
	Norms	100	60	80	80	NS								
	Date of Monitoring													
1	02-05-2023	68.6	36.9	14.0	22.5	BQL (QL=1								
2	05-05-2023	72.8	38.8	14.8	22.6	BQL (QL=1)								
3	08-05-2023	65.4	33.6	12.9	20.9	BQL(QL=1)								
4	11-05-2023	68.2	35.9	14.1	22.1	BQL(QL=1)								
5	15-05-2023	71.6	39.5	15.3	23.2	BQL (QL=1)								
6	18-05-2023	68.9	37.6	13.2	21.9	BQL (QL=1)								
7	22-05-2023	73.4	41.2	12.7	20.8	BQL (QL=1)								
8	25-05-2023	69.5	35.6	14.5	23.2	BQL (QL=1)								
9	29-05-2023	68.5	32.9	12.6	21.7	BQL (QL=1)								
	AVERAGE	69.7	36.9	13.8	22.1	BQL (QL=1)								

Norms- As per national Ambient Air Qualiy Standards

Analyes By Approved By R SHIJYKB. Shiyal Kishor Pankil Patel

		GC	O Green Mechanis	ms Pvt Ltd								
		Analysis	Results For The	Month of May-23								
			te 24 Hourly Moni									
C	and Billion and	1		coring Results								
-	ny Name	Mahan Energ										
Sample		AMBIENT AIR QUALITY MONITORING										
Sample	Description	Near Gate No	o-03									
	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	Mercury(Hg						
	Unit	µg/m ³	µg/m³	µg/m³	µg/m ³	ng/m3						
Sr. No	Reference Method	IS 5182 part-23	GGMPL/SOP/ AA/60	IS 5182 Part-2	IS 5182 Part-6	Method IO-3.4						
	Norms	100	60	80	80	NS						
	Date of Monitoring											
1	02-05-2023	59.6	31.7	13.1	22.0	BQL(QL=1)						
2	05-05-2023	61.5	32.5	14.4	24.0	BQL(QL=1)						
3	08-05-2023	64.0	34.2	12.5	21.4	BQL(QL=1)						
4	11-05-2023	59.2	30.9	13.8	21.6	BQL(QL=1)						
5	15-05-2023	53.1	29.5	11.3	20.7	BQL(QL=1)						
6	18-05-2023	56.7	31.8	14.8	22.4	BQL(QL=1)						
7	22-05-2023	53.9	30.6	12.2	21.2	BQL(QL=1)						
8	25-05-2023	62.6	33.5	13.3	20.7	BQL(QL=1)						
9	29-05-2023	61.2	31.2	12.6	19.9	BQL(QL=1)						
	AVERAGE	59.1	31.8	13.1	21.5	BQL(QL=1)						

Norms- As per national Ambient Air Qualiy Standards

Analyes By Approved By Shipuk B. 8 -0 Shiyal Kishor Pankil PatelEND..... *******

						GO Green	Mechanism	s Pvt Ltd				and the second second			
					A	nalysis Results P	or The Mon	th of June -2023							
						Cn Site 24 Ho	arty Monitor	ring Results							
Compan	ny Name	Mahan Energer	n Limited							- Andrew -		1	- Acres		
ample	Туре	AMBIENT AIR QUALITY MONITORING													
iample	Description	Near Admin Bu	ilding		and a second	contrast-	Constants.	a shere we are	ano pro-	and the P			12 5 10 5		
	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	Mercury(Hg)	03	NH3	co	Benzone	Banco (a) Pyrene	Pb	NI	As	
	Unit	µg/m ³	µg/m³	µg/m ³	pg/m ³	ng/m3	µg/m ³	µg/m ³	mg/m ²	µg/m3	ng/m3	µg/m3	og/m3	ng/m3	
Sr. No	Referance Method	15 5182 part-23	GGMPL/SCP/ AA/60	IS 5182 Part-2	IS 5182 Part-6	Method 10-3.4	15 5182 Part-9	GGMPL/SOP/A A/62	15 5182 Part-10	15 5182 Part-11	IS 5182 Part-12	Method IO 3.4	Method IO 3,4		
	Norma	100	60	80	80	NS	100	400	4	5	1	1	20	6	
	Date of Monitoring														
1	01-06-2023	69,9	36.2	15.1	22.4	BQL(QL=1)	15,8	13.2	0.38	BQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)	
2	05-06-2023	66.7	34,6	14.7	21.0	BQL(QL=1)	16.1	14.4	0.34	BQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)	
3	08-06-2323	63.4	32.9	14.0	19.9	BQL(QL=1)	14.8	12.6	0.32	BQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)	
4	12-05-2323	66.3	34,2	13.5	20.7	BQL(QL=1)	15.1	15.7	0.30	BQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)	
5	16-05-2323	62.6	32.5	12.8	19.9	BQL(QL=1)	14.5	11.6	0.35	BQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0,001)	BQL(QL=5)	BQL(QL=1)	
6	19-06-2023	60,4	31.2	12.0	18.7	BQL(QL=1)	13.9	13.2	0.30	BQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)	
7	22-06-2023	63.7	33.3	13.2	20.1	BQL(QL=1)	14,2	13.7	0.29	BQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)	
8	26-06-2023	67.2	35.0	14.8	21.4	BQL(QL=1)	15.1	14.1	0.32	BQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)	
9	29-06-2323	65.4	32.4	12.4	18.6	BQL(QL=1)	15.8	13.6	0.36	BQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)	
	AVERAGE	65.1	33,6	13.6	20.3	BQL(QL=1)	15.0	13.6	0.33	BQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)	

BQL - Below Quantification Limit: Avg Average: NS- Not Specified	(CONTRACT)		
Norms- As per national Ambient Air Qually Standards	SEG RAA		and the second second
Analyes By	13	Approved By	
Shifut K-B. Shiyat Kishor	(3) ·····	Panki Patel	

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						GO Green M sis Results Fo n Site 24 Hou	or The M	onth of June						
Compa	any Name	Mahan Energ	en Limited											- 1997 - 200
Sampl	е Туре	AMBIENT AT	R QUALITY MO	NITORING				and the second second		a second	and the second	100000000		
Sampl	e Description	Near Gate No	- 02		With the second state		1. 11 S.	anti-se :	and in	1200 1	a state	44.92		
	Parameters	PM (<10)	PM (<2.5)	SO2	NO ₂	Mercury(Hg)	03	NH3	co	Benzene	Benzo (a) Pyrene	Pb	NI	As
	Unit	µg/m ³	µg/m ³	µg/m³	µg/m ³	ng/m3	µg/m³	µg/m³	mg/m ³	µg/m3	ng/m3	µg/m3	ng/m3	ng/m3
Sr. No	Reference Method	15 5182 part-23	GGMPL/SOP/ AA/60	IS 5182 Part-2	IS 5182 Part-6	Method IO-3.4	IS 5182 Part-9	GGMPL/SOP/A A/62	IS 5182 Part-10	IS 5182 Part-11	IS 5182 Part-12	Method IO 3.4	Method IO 3.4	Method IO 3.4
	Norms	100	60	80	80	NS	100	400	4	5	1	1	20	6
	Date of Monitoring	1												
1	01-06-2023	66.1	34.2	13.7	19.9	BQL (QL=1)	10.7	14.2	0.32	8QL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)
2	05-06-2023	63.7	31.8	12.9	18.2	BQL (QL=1)	10.1	:4.5	0,28	EQL(QL=2.5)	BQ.(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)
3	08-06-2023	68.7	35.4	13.2	20.4	BQL(QL=1)	10.7	15.4	0.34	BQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)
4	12-06-2023	64.2	33.3	12.0	18.4	BQL (QL=1)	9.8	24,8	0.29	EQL(QL=2.5)	BQ:_(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)
5	16-06-2023	67.5	34.1	13.6	20.6	BQL (QL=1)	10.4	14.2	0.33	EQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)
6	19-06-2023	70.3	36.2	14.2	22.1	BQL (QL=1)	9.8	13.8	0.37	EQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)
7	22-06-2023	66.7	33.9	12.8	20.2	BQL (QL=1)	9.5	13.5	0.38	EQL(QL≈2.5)	BQ!.(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)
8	26-06-2023	69.5	35.2	13.5	21.4	BQL (QL=1)	10,1	14.1	0.31	EQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)
9	29-06-2023	68.5	30.5	14.1	20.8	BQL (QL=1)	10.4	15.4	0.35	EQL(QL=2.5)	BQ.(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)
	AVERAGE	67.2	33.8	13.3	20.2	BQL(QL=1)	10.2	14.4	0.33	BQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	Contract Contractory Name, restrated

BQL - Bolow Quantification Limit: Avg Average; NS- Hot Specified	AEC HA		
Norma- As per national Ambient Air Quality Standards	a standing		
Analyes By		Approved By	
Shijul K.B.	12	7	
Shiyai Kishor	* 01	Panki Patal	man and the

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					A	natysis Results F		th of June-2023						
Compa	ny Name	Mahan Energe	n Limited			On Site 24 Hor	urly Monito	ring Results				Sull and the	-	
ample		a president and a second president	QUALITY MONIT	ORING	and in sec.									
	Description	Near Gate No-												
	Parameters	PM (<10)	PM (<2.5)	\$0 ₂	NO3	Mercury(Hp)	03	NH3	co	Eenzene	Benzo (a) Pyrene	Pb	NI	As
	Unit	µg/m ³	µg/m ³	µg/m ²	µg/m ³	ng/m3	µg/m ³	µg/m ³	mg/m ³	µg/m3	ng/m3	µg/m3	ng/m3	ng/m3
Sr. No	Reference Method	IS 5182 part-23	GGMPL/SOP/ AA/60	IS 5182 Part-2	IS 5182 Part-6	Method 10-3.4	IS 5182 Part-9	GGMPL/SOP/	IS 5182 Part-10	IS 5182 Part-11	IS 5182 Part-12	Mothod IO 3.4	Method IO 3.4	
	Norma	100	60	80	80	NS	100	400	4	5	1	1	20	6
	Date of Monitoring										0			
1	01-05-2023	63.9	33.3	12.9	21.5	BQL(QL=1)	12.2	14.2	0.37	BQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)
2	05-06-2023	66.5	34.6	14.7	22.3	BQL(QL≃1)	10.2	14.5	0.39	BQL(QL=2.5)	BQL(QL=0.5)	8QL(QL=0.001)	BQL(QL=5)	BQL(QL=1)
3	08-06-2023	63.0	32.5	12.8	21.3	BQL(QL≃1)	10.7	15.4	0.35	BQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)
4	12-06-2023	67.5	35.0	13.9	22.4	BQL(QL=1)	11.5	14.8	0.36	BQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)
5	16-05-2023	63.0	32.9	14.6	21,2	BQL(QL=1)	10.9	14.2	0.33	BQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)
6	19-06-2023	65.6	34.2	15.2	19.2	BQL(QL=1)	10.5	13.8	0.36	8QL(QL=2.5)	BQL(QL=0,5)	8QL(QL=0.001)	BQL(QL=5)	BQL(QL=1)
7	22-06-2023	61.5	32.1	14.4	21.6	BQL(QL=1)	11.3	13.5	0.32	BQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)
8	26-06-2023	62.8	30.4	13.6	21.0	BQL(QL=1)	10.2	14.1	0.31	BQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)
9	29-06-2023	65.9	29.8	15.4	20.2	BCL(QL=1)	9.6	15.4	0.30	BQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)
	AVERAGE	64.4	32.8	14.2	21.4	BQL(QL=1)	10.8	14.4	0.34	BQL(QL=2.5)	BQL(QL=0.5)	BQL(QL=0.001)	BQL(QL=5)	BQL(QL=1)

BQL - Below Quantification Limit; Avg. - Average; NS- Not Specified ECHAD Norms- As per national Ambient Air Qualiy Standards Analyes By Shijtey K.B. Shijal Kisher Approved By 00 0 A Pankil Patel ...END..

Name & Address of the Party:

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

SUMMARY SHEET OF AMBIENT AIR QUALITY MONITORING

		Ne	ar Admii	n Bulidi	ng		Near Ga	te No 2	2		Near Gate	No 3		
S. No.	Date of Sampling	Pa	rameters	& Resu	lts	P	arameters	s & Resu	lts	Parameters & Results				
		PM10 (µg/m ³)	PM2.5 (µg/m ³)	SO2 (µg/m ³)	NO2 (µg/m ³)	PM10 (µg/m ³)	PM2.5 (µg/m ³)	SO2 (µg/m ³)	NO2 (µg/m ³)	PM10 (µg/m ³)	PM2.5 (j1g/m ³)	SO2 (µg/m ³)	NO2 (µg/m ³)	
1.	10/07/2023 To 11/07/2023	40.03	23.64	9.84	14.25	43.29	24.07	12.42	18,36	44.62	20.15	13.04	17.64	
2.	13/07/2023 To 14/07/2023	33.89	18.52	10.42	11.76	47.69	21.89	14.66	19.63	50.85	22.41	15.30	18.55	
3.	17/07/2023 To 18/07/2023	43.49	17.63	11.55	19.02	51.65	23.88	13.99	20.47	55.94	23.77	15.73	21.05	
4.	20/07/2023 To 21/07/2023	54.02	21.08	13.90	16.97	62.89	26.39	16.32	22.02	59.01	25.20	17.25	25.13	
5.	24/07/2023 To 25/07/2023	61.12	28.76	14.20	17.54	70.49	28.33	16.74	20.85	71.00	29.41	17.98	24.17	
6.	27/07/2023 To 28/07/2023	53.79	24.13	12.89	15.61	57.00	24.65	13.32	21.44	59.33	21.66	13.10	18.73	
7.	31/07/2023 To 01/08/2023	45.11	19.46	9.35	15.13	50.33	17.33	11.23	13.25	48.01	16.45	10.67	13.98	
8.	Maximum	61.12	28.76	14.20	19.02	70.49	28.33	16.74	22.02	71.00	29.41	17.98	25.13	
9.	Minimum	33.89	17.63	9.35	11.76	43.29	17.33	11.23	13.25	44.62	16.45	10.67	13.98	
10.	Average	47.35	21.89	11.74	15.75	54.76	23.79	14.10	19.43	55.54	22.72	14.72	19.89	
11.	Limits As Per CPCB	100	60	80	80	100	60	80	80	100	60	80	80	

Note:- CPCB: Central Pollution Control Board.



End of Report



Laboratory: Plot No. 82A, Sector - 5, ISO 9001 | ISO 14001 | ISO 45001

IMT Manesar, Gurugram - 122051 (Hr)

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SUMMARY SHEET OF AMBIENT AIR QUALITY MONITORING - AUGUST 2023

Name & Address of the Party:

M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886 08/09/2023

Reporting Date:

10.000		Ne	ar Admin	Bulidi	ng		Near Gat	te No 2	2		Near Gate	e No 3	
S. No.	Date of Sampling	Pa	rameters	& Resu	lts	Pa	arameters	& Resu	ilts	Parameters & Results			
		PM10 (µg/m ³)	PM2.5 (µg/m ³)	SO2 (µg/m ³)	NO2 (µg/m ³)	PM10 (µg/m ³)	PM2.5 (µg/m ³)	SO2 (µg/m ³)	NO2 (µg/m ³)	PM10 (µg/m ³)	PM2.5 (µg/m ³)	SO ₂ (µg/m ³)	NO3 (µg/m ³
1.	01/08/2023 To 02/08/2023	45.74	21.25	8.91	16.55	48.14	19.65	11.59	19.38	45.20	23.18	10.08	16.89
2.	04/08/2023 To 05/08/2023	36.28	19.82	11.65	15.54	50.97	22.18	13.55	16.61	46.90	21.42	13.21	13.5
3.	07/08/2023 To 08/08/2023	44.63	19.50	9.54	17.91	49.39	21.88	9.87	18.04	44.40	22.51	10.04	19.6
4.	10/08/2023 To 11/08/2023	54.62	22.48	15.37	19.25	60.47	24.10	16.22	21.57	48.50	21.63	08.19	18.0
5.	14/08/2023 To 15/08/2023	44.31	18.47	13.65	15.33	48.28	19.55	14.81	16.85	49.20	20.01	12.17	16.9
6.	17/08/2023 To 18/08/2023	33.62	14.16	9.55	11.65	38.94	15.22	10.08	12.34	43.50	15.72	09.25	12.8
7.	21/08/2023 To 22/08/2023	40.85	16.16	10.64	18.37	49.28	18.05	12.61	20.09	47.30	17.39	15.16	20.1
8.	24/08/2023 To 25/08/2023	48.19	17.09	9.54	14.69	51.82	17.22	10.42	16.89	42.60	16.89	11.35	13.5
9.	28/08/2023 To 29/08/2023	53.89	24.95	16.89	23.31	58.48	26.31	17.52	23.87	39.40	19.49	14.43	19.5
10.	30/08/2023 To 31/08/2023	47.87	23.25	14.82	21.58	49.82	23.48	15.74	23.58	40.90	20.04	16.04	21.7
11.	Maximum	54.62	24.95	16.89	23.31	60.47	26.31	17.52	23.87	49.20	23.18	16.04	21.7
12.	Minimum	33.62	14.16	8.91	11.65	38.94	15.22	9.87	12.34	39.40	15.72	08.19	12.8
13.	Average	45.00	19.71	12.06	17.42	50.56	20.76	13.24	18.92	44.79	19.82	11.99	17.2
14.	Limits As Per CPCB	100	60	80	80	100	60	80	80	100	60	80	80

Note:- CPCB: Central Pollution Control Board.

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Laboratory:

Approvals & Certi

SUMMARY SHEET OF AMBIENT AIR QUALITY MONITORING - September - 2023

Name & Address of the Party:

M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886 05/10/2023

Reporting Date:

	Date of Sampling	Ne	ar Admir	n Bulidi	ng		Near Ga	te No 2	2		Near Gate	e No 3	
S. No.		Parameters & Results			Parameters & Results			Parameters & Results					
		PM10 (µg/m ³)	PM2.5 (µg/m ³)	SO ₂ (µg/m ³)	NO2 (µg/m ³)	PM10 (µg/m ³)	PM2.5	SO ₂ (µg/m ³)	NO2 (µg/m ³)	PM10 (µg/m ³)	PM2.5 (µg/m ³)	SO ₂ (µg/m ³)	NO2 (µg/m ³)
1.	04/09/2023 To 05/09/2023	48.95	23.42	10.40	17.13	52.41	23.74	11.31	16.78	43.73	21.77	8.38	14.11
2.	07/09/2023 To 08/09/2023	42.31	21.91	9.13	14.15	50.63	23.79	14.45	19.12	40.19	23.93	11.03	16.44
3.	11/09/2023 To 12/09/2023	47.63	25.65	11.15	13.94	53.75	27.56	13.92	17.14	39.78	20.28	12.05	12.68
4.	14/09/2023 To 15/09/2023	52.96	29.43	13.17	15.83	56.43	30.43	10.83	19.05	42.45	21.92	7.71	11.79
5.	18/09/2023 To 19/09/2023	55.34	27.69	12.15	17.89	57.15	32.48	13.79	15.57	44.53	23.41	10.18	13.83
6.	21/09/2023 To 22/09/2023	46.82	24.96	14.18	18.01	51.49	31.33	15.80	14.50	42.39	20.12	9.67	. 12.74
7.	25/09/2023 To 26/09/2023	41.97	20.44	12.97	16.45	49.74	29.64	13.77	18.43	43.13	19.47	13.12	16.1
8.	28/09/2023 To 29/09/2023	43.13	22.72	15.19	18.43	46.89	27.52	14.19	17.94	39.46	22.68	11.29	13.84
9.	Maximum	55.34	29.43	15.19	18.43	57.15	32.48	15.80	19.12	44.53	23.93	13.12	16.44
10.	Minimum	41.97	20.44	9.13	13.94	46.89	23.74	10.83	14.50	39.46	19.47	7.71	11.79
11.	Average	47.39	24.53	12.29	16.48	52.31	28.31	13.51	17.32	41.96	21.70	10.43	13.94
12.	Limits As Per CPCB	100	60	80	80	100	60	80	80	100	60	80	80

Note:- CPCB: Central Pollution Control Board.





Laboratory:

SSai WAVUSH

5	Contraction of the second	enter a series a	GO Green Mechanisn	ns Pvt Ltd							
an Service and		Analy	sis Result for the Mo	nth of April-23							
Company	y Name	Mahan Energen Li	imited			12.21					
Sample 1	Гуре	Stack Emission				-					
Stack At	tached To	Boiler									
Stack Hihgt & Dia (m) Monitoring Platform Area of Stack Date of Sampling		276 & 6.9	Contraction of the								
		105 mtr									
		37.37 m2	37.37 m2								
		24.04.2023	24.04.2023								
Sample C	Collected By	Laboratory Representative									
Sr. No.	Parameters	Result (Unit1)	Results (Unit2)	Unit	Reference Method	Limit (mg/Nm3					
1	Stack Temperature	125.00	128.00	°C	IS 11255 Part-3						
2	Barometric Pressure	758.00	758.00	mmHg	GGMPL/SOP/MP/01						
3	Velocity	26.53	25.86	m/s	IS 11255 Part-3	-					
4	Volumetric Flow Rate	991.53	966.49	Nm3/s	IS 11255 Part-3						
5	Particulate Matter (PM)	41.31	44.22	mg/Nm ²	IS 11255 Part-1	50					
6	Sulphur Dioxide (SO2)	723.00	667.00	mg/Nm ³	GGMPL/SOP/SEA/68	200					
	Oxides of Nitrogen(NOx)	329.00	288.00	mg/Nm ³	GGMPL/SOP/SEA/68	450					
7		-									

Limit as per Thermal Power Plant Gazzate 2015	
Analysed By	Approved By
ShidelinB	P.
Shiyal Kishor	Pankil Patel



and and		(GO Green Mechanism	s Pvt Ltd							
_		Analy	sis Result for the Mo	nth of May-23							
Company	Name	Mahan Energen Li	mited		20 C 1 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2						
Sample T	Гуре	Stack Emission									
Stack Att	tached To										
Stack Hihgt & Dia (m) 276 & 6.9											
Monitorin	ng Platform	105 mtr									
Area of S	itack	37.37 m2	37.37 m2								
Date of S	Sampling	25.05.2023	25.05.2023								
Sample Collected By Laboratory Representative						100					
Sr. No.	Parameters	Result (Unit1)	Results (Unit2)	Unit	Reference Method	Limit (mg/Nm3					
1	Stack Temperature	122.00	124.00	°C	IS 11255 Part-3						
2	Barometric Pressure	757.00	757.00	mmHg	GGMPL/SOP/MP/01						
3	Velocity	25.42	25.76	m/s	IS 11255 Part-3						
4	Volumetric Flow Rate	950.04	962.75	Nm3/s	IS 11255 Part-3	-					
5	Particulate Matter (PM)	43.15	45.60	mg/Nm ²	IS 11255 Part-1	50					
6	Sulphur Dioxide (SO2)	719.00	676.00	mg/Nm ³	GGMPL/SOP/SEA/68	200					
7	Oxides of Nitrogen(NOx)	368.00	276.00	mg/Nm ³	GGMPL/SOP/SEA/68	450					
8	Mercury as Hg	BQL(QL=0.01)	BQL(QL=0.01)	mg/Nm ³	EPA Method 21	0.03					

 BQL= Below Quantification Limit

 Limit as per Thermal Power Plant Gazzate 2015

 Analysed By
 Approved By

 Shijten k. B.
 J.

 Shiyal Kishor
 Pankil Patel



1		(GO Green Mechanism	s Pvt Ltd	and the second sec					
		Analysi	s Result for the Mont	h of June- 2023						
Company	y Name	Mahan Energen Li	mited							
Sample Type Stack Emission										
Stack Attached To Boller										
Stack Hil	hgt & Dia (m)	276 & 6.9								
Monitoria	ng Platform	105 mtr								
Area of S	itack	37.40 m2								
Date of S	Sampling	21.06.2023	21.06.2023							
Sample Collected By Laboratory Representative										
Sr. No.	Parameters	Result (Unit1)	Results (Unit2)	Unit	Reference Method	Limit (mg/Nm3)				
1	Stack Temperature	135.50	130.75	°C	IS 11255 Part-3					
2	Barometric Pressure	750.00	750.00	mmHg	GGMPL/SOP/MP/01	10				
3	Velocity	27.05	26.14	m/s	IS 11255 Part-3	-				
4	Volumetric Flow Rate	1010.95	976.95	Nm3/s	IS 11255 Part-3					
5	Particulate Matter (PM)	38.66	37.07	mg/Nm ³	IS 11255 Part-1	50				
6	Sulphur Dioxide (SO2)	795.74	770.71	mg/Nm ³	GGMPL/SOP/SEA/68	200				
7	Oxides of Nitrogen(NOx)	368.15	341.42	mg/Nm ³	GGMPL/SOP/SEA/68	450				
8	Mercury as Hg	BQL(QL=0.01)	BQL(QL=0.01)	mg/Nm ³	EPA Method 21	0.03				

imit as per Thermal Power Plant Gazzate 2015	
Analysed By	Approved By
Shidu K.B.	æ
Shiyal Kishor	Pankil Patel



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number: Name & Address of the Party:

VEL/S/01 M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886

Report No.: Format No.: Party Reference No.:

Reporting Date: Period of Analysis: Receipt Date: Page No.:

VEL/S/2307200005 7.8 F-03 5703009832 Date : 14/06/2023 24/07/2023 20/07/2023 - 24/07/2023 20/07/2023 1 of 1

Sample Description:

STACK EMISSION MONITORING

General Information	
Sampling Location	: Bolier Unit -01
Sample Collected By	: VEL Representative (Mr. Amit Pandey)
Sampling Instrument Used	: Stack Monitoring Kit
Instrument Code	: VEL/INS/ENV/SMK/04
Instrument Calibration Status	: Calibrated
Date of Monitoring	: 17/07/2023
Meteorological Condition During Monitoring	: Clear Sky
Stack Attached To	: Bolier Unit -01
Stack Diameter (m)	: 6.9
Stack Height (m)	: 275
Make of Stack	: MS
Sampling Duration (Minutes)	: 39.0
Ambient Temperature - Ta (°C)	: 36.0
Temperature of Stack Gases - Ts (°C)	: 127.0
Velocity of Stack Gases (m/sec.)	: 24.83
Flow Rate of PM (LPM)	: 26.0
Flow Rate of Gas (LPM)	: 2.0
Sampling Condition	: Isokinetic
Sampling & Analysis Protocol	: CPCB Guidelines & IS: 11255
Parameter Required	: As Per Work Order

S. No.	Parameters	Parameters Test Method		Units	Limits As Per CPCB
1.	Particulate Matter (as PM)	IS: 11255 (P-1)	44.22	mg/Nm ³	50
2.	Sulphur Dioxide (as SO ₂)	IS: 11255 (P-2)	790.00	mg/Nm ³	200
3.	Oxides of Nitrogen (as NO2)	IS: 11255 (P-7)	354.32	mg/Nm ³	450
4.	Mercury (as Hg)	VEL/ENV/STP/144, Issue No 01, Issue Date : 01/11/2021	BLQ(LOQ-0.005)	mg/Nm ³	0.03

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



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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number:	VEL/S/02			Report No.:	VEL/S/2308010006		
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:	04/08/2023		
				Period of Analysis:	01/08/2023 - 04/08/2023		
				Receipt Date:	01/08/2023		
Sample Description:	STACK EMISSION MO	NITO	ORING	Page No.:	1 of 1		
General Information			12022000	21.22 - 222			
Sampling Location		:		r Unit -02			
Sample Collected By		 VEL Representative (Mr. Amit Pandey) Stack Monitoring Kit VEL/INS/ENV/SMK/04 Calibrated 29/07/2023 					
Sampling Instrument	Used						
Instrument Code							
Instrument Calibratio	n Status						
Date of Monitoring	a an air an an an a						
	ion During Monitoring	: Clear Sky : Bolier Unit -02					
Stack Attached To							
Stack Diameter (m)		:	6.9				
Stack Height (m)		: 275					
Make of Stack		:	MS				
Sampling Duration (M		: 42.0					
Ambient Temperature		:	38.0				
Temperature of Stack			136.0				
Velocity of Stack Gase		: 25.91					
Flow Rate of PM (LPM		:	27.0				
Flow Rate of Gas (LPM	M)	:	2.0				
Sampling Condition		:	Isokineti	ie			
Sampling & Analysis I	Protocol	:	CPCB G	Guidelines & IS: 11255			
Parameter Required		:	As Per V	Vork Order			

S. No.	Parameters	Test Method	Results	Units	Limits As Per CPCB
1.	Particulate Matter (as PM)	IS: 11255 (P-1)	39.71	mg/Nm ³	50
2.	Sulphur Dioxide (as SO ₂)	IS: 11255 (P-2)	763.58	mg/Nm ³	200
3.	Oxides of Nitrogen (as NO ₂)	IS: 11255 (P-7)	285.00	mg/Nm ³	450
- 4.	Mercury (as Hg)	VEL/ENV/STP/144, Issue No 01, Issue Date : 01/11/2021	BLQ(LOQ-0.005)	mg/Nm ³	0.03

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





End of Report



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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number:	VEL/S/01			Report No.:	VEL/S/2308250001			
Name & Address of the Party:	M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal,			Format No.:	7.8 F-03			
				Party Reference No.:	5703009832			
	Tehsil: Mada, Distt.: Sin		li,		Date : 14/06/2023			
	Madhya Pradesh - 48688	36		Reporting Date:	31/08/2023			
				Period of Analysis:	25/08/2023 - 31/08/2023			
				Receipt Date:	25/08/2023			
				Page No.:	1 of 1			
Sample Description:	STACK EMISSION MO	NITO	ORING					
General Information								
Sampling Location		:	Boiler U	nit -02				
Sample Collected By		:	VEL Representative (Mr. Amit Pandey)					
Sampling Instrument Used Instrument Code			: Stack Monitoring Kit					
			VEL/INS	S/ENV/SMK/04				
Instrument Calibration	Status	:	Calibrat	ed				
Date of Monitoring		:	21/08/20	23				
Meteorological Conditi	on During Monitoring	:	Clear Sk	У				
Stack Attached To		1	Boiler U	nit -02				
Stack Diameter (m)		:	6.9					
Stack Height (m)		10	275					
Plant Load (MWh)			405					
Make of Stack		:	MS					
Sampling Duration (M	inutes)	:	116.0					
Ambient Temperature	- Ta (°C)	:	38.0					
Temperature of Stack	Gases - Ts (°C)	:	127.0					
Velocity of Stack Gases	s (m/sec.)	:	24.78					
Flow Rate of PM (LPM	1)	:	27.0					
Flow Rate of Gas (LPM	1)	:	2.0					
Sampling Condition		:	Isokineti	c				
Sampling & Analysis P	rotocol	:	CPCB G	uidelines & IS: 11255				
Parameter Required		:	As Per V	Vork Order				

S. No.	Parameters	Test Method	Results	Units	Limits As Per CPCB	
1.	Particulate Matter (as PM)	IS: 11255 (P-1)	42.22	mg/Nm ³	50	
2.	Sulphur Dioxide (as SO2)	IS: 11255 (P-2)	753.00	mg/Nm ³	200	
3.	Oxides of Nitrogen (as NO _X)	IS: 11255 (P-7)	264.00	mg/Nm ³	450	
4.	Mercury (as Hg)	VEL/ENV/STP/144, Issue No 01, Issue Date : 01/11/2021	BLQ(LOQ-0.005)	mg/Nm ³	0.03	

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

End of Report



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Sample Number: Name & Address of the Party: **VEL/S/01** M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886

Report No.: Format No.: Party Reference No.:

Reporting Date: Period of Analysis: **Receipt Date:** Page No.:

VEL/S/2309250001 7.8 F-03 5703009832 Date : 14/06/2023 28/09/2023 25/09/2023 - 28/09/2023 25/09/2023 1 of 1

Sample Description:

STACK EMISSION MONITORING

General Information	
Sampling Location	: Boiler Unit -01
Sample Collected By	: VEL Representative (Mr. Amit Pandey)
Sampling Instrument Used	: Stack Monitoring Kit
Instrument Code	: VEL/INS/ENV/SMK/04
Instrument Calibration Status	: Calibrated
Date of Monitoring	: 22/09/2023
Meteorological Condition During Monitoring	: Clear Sky
Stack Attached To	: Boiler Unit -01
Stack Diameter (m)	: 6.9
Stack Height (m)	: 275
Plant Load (MWh)	: 305
Make of Stack	: MS
Sampling Duration (Minutes)	: 41.66
Ambient Temperature - Ta (°C)	: 36.0
Temperature of Stack Gases - Ts (°C)	: 124.0
Velocity of Stack Gases (m/sec.)	: 25.20
Flow Rate of PM (LPM)	: 24.0
Flow Rate of Gas (LPM)	: 2.0
Sampling Condition	: Isokinetic
Sampling & Analysis Protocol	: CPCB Guidelines & IS: 11255
Parameter Required	: As Per Work Order
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S. No.	Parameters	Test Method	Results	Units	Limits As Per CPCB
1.	Particulate Matter (as PM)	IS: 11255 (P-1)	44.50	mg/Nm ³	50
2.	Sulphur Dioxide (as SO ₂)	IS: 11255 (P-2)	802.52	mg/Nm ³	200
3.	Oxides of Nitrogen (as NO _X)	IS: 11255 (P-7)	334.11	mg/Nm ³	450
4.	Mercury (as Hg)	VEL/ENV/STP/144, Issue No 01, Issue Date : 01/11/2021	BLQ(LOQ-0.005)	mg/Nm ³	0.03

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

End of Report

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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Sample Number: Name & Address of the Party:

VEL/S/02 M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886

Report No.: Format No.: Party Reference No.:

Reporting Date: Period of Analysis: Receipt Date: Page No.:

VEL/S/2309250002 7.8 F-03 5703009832 Date : 14/06/2023 28/09/2023 25/09/2023 - 28/09/2023 25/09/2023 1 of 1

Sample Description:

STACK EMISSION MONITORING

General Information	the balance dank it is well "me
Sampling Location	: Boiler Unit -02
Sample Collected By	: VEL Representative (Mr. Amit Pandey)
Sampling Instrument Used	: Stack Monitoring Kit
Instrument Code	: VEL/INS/ENV/SMK/04
Instrument Calibration Status	: Calibrated
Date of Monitoring	: 22/09/2023
Meteorological Condition During Monitoring	: Clear Sky
Stack Attached To	: Boiler Unit -02
Stack Diameter (m)	: 6.9
Stack Height (m)	: 275
Plant Load (MWh)	: 303
Make of Stack	: MS
Sampling Duration (Minutes)	: 40.0
Ambient Temperature - Ta (°C)	: 38.0
Temperature of Stack Gases - Ts (°C)	: 122.0
Velocity of Stack Gases (m/sec.)	: 25.55
Flow Rate of PM (LPM)	: 25.0
Flow Rate of Gas (LPM)	: 2.0
Sampling Condition	: Isokinetic
Sampling & Analysis Protocol	: CPCB Guidelines & IS: 11255
Parameter Required	: As Per Work Order

S. No.	Parameters Environmentario	Test Method	Results	Units	Limits As Per CPCB
1.	Particulate Matter (as PM)	Energie IS: 11255 (P-1)	41.63	mg/Nm ³	50
2.	Sulphur Dioxide (as SO ₂)	IS: 11255 (P-2)	775.18	mg/Nm ³	200
3.	Oxides of Nitrogen (as NO _X)	IS: 11255 (P-7)	295.08	mg/Nm ³	450
4.	Mercury (as Hg)	VEL/ENV/STP/144, Issue No 01, Issue Date : 01/11/2021	BLQ(LOQ-0.005)	mg/Nm ³	0.03

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

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			GO	Green Mechani	sms Pvt Ltd			
			Analysis R	esults for the	Month of April-	23		
-	any Name		No.	Mahan Energen				-
	e Type e Quantity		and the second second	Ground Water			-	
and the second dates	e Collected By		and the second	81				
and the second se	of Sampling			Laboratory Rep	resentative			
Analys	is Period		Contraction of the	11.04.2023 17.04.2023 to.	22.04.2022			
				Location	£2.04.2023		1	
SL. No	PARAMETER	UNIT	Bandhaura Village	Railla	Karsuaraja Village	Reference Method	As pe	PL
1	pH @ 25 °C		7.36	7.23	7.46	15 3025-Part 11	6.5-8.5	
2	Turbidity	NTU	BQL(QL=0.1)	BQL(QL=0.1)	BQL(QL=0.1)			No relaxatio
3	Total Dissolved Solids @ 180 °C	mg/L	588.00	462.00	572.00	APHA 23rd Edition (2130 B)	1	5
4	Total Hardness as CaCO ₂	mg/L	320.00	202.00	282.00	APHA 23rd Edition (2540 C)	500	2000
5	Alkalinity as CaCO1	mg/L	265.00	213.30		APHA 23rd Edition (2340 C)	200	600
6	Calcium as Ca	mg/L	96,59	52.10	270.00	APHA 23rd Edition (2320 B)	200	600
7	Magnesium (Mg)	mg/L	19.20		63.33	APHA 23rd Edition (3120 B)	75	200
8	Sulphate	111111		17.50	30.13	APHA 23rd Edition (3120 B)	30	100
9	Nitrate	mg/L	29.22	54.35	45.97	APHA 23rd Edition (4500 SO4 E)	200	400
10	Iron	mg/L	2.19	1.09	1.07	IS 3025 (Part 34)	45	No relaxatio
11	Fluoride	mg/L	0.039	0.061	0.118	APHA 23rd Edition (3120 B)	0.3	No relaxatio
12	Sulphide	mg/L	BQL(QL=0.1)	BQL(QL=0.1)	BQL(QL=0.1)	APHA 23rd Edition (4500 F D)	1	1.5
13	Zinc (Zn)	mg/L	BQL(QL=0.2)	BQL(QL=0.2)	BQL(QL=0.2)	APHA 23rd Edition (4500 S2 F)	0.05	No relaxatio
		mg/L	0.117	0.124	1.021	APHA 23rd Edition (3120 B)	5	15
14	Chloride	mg/L	174.95	88.97	147.95	15 3025-Part 32	250	1000
10.00	Residual Chlorine	mg/L	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	APHA 23rd Edition (4500 CI B)	0,2	1
	Colour	Hazen	BQL(QL=1)	BQL(QL=1)	BQL(QL=1)	15 3025 part 4	5	15
	Odour	8.10	Agreeable	Agreeable	Agreeable	15 3025 part 5	Agreeable	Agreeable
18	Mineral Oil	mg/L	BQL(QL=1)	BQL(QL=1)	BQL(QL=1)	IS 3025 part 39	0.5	No relaxation
19	Ammonia	mg/L	BQL(QL=0.5)	BQL(QL=0.5)	BQL(QL=0.5)	APHA 23rd Edition (4500 NH3 C)	0.5	No relaxation
20	Taste		Agreeable	Agreeable	Agreeable	15 3025 Part-7	Agreeable	Agreeable
21	Chloramines as Cl2	mg/L	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	IS 3025 (Pt 26)	4	No relaxation
22	Cyanide.	mg/L_	BQL(QL=0.025)	BQL(QL=0.025)	BQL(QL=0.025)	GGMPL/SOP/W/43	0.05	No relaxation
23	Aluminum (Al)	mg/L	BQL(QL=0.02)	BQL(QL=0.02)	BQL(QL=0.02)	APHA 23rd Edition (3120 B)	0.03	0.2
24	Arsenic (As)	mg/L	BQL(QL=0.005)	BQL(QL=0.005)	BQL(QL=0.005)	APHA 23rd Edition (3120 B)	0.01	0.05
25 8	Barium as Ba	mg/L	BQL(QL=0.02)	BQL(QL=0.02)	BQL(QL=0.02)	APHA 23rd Edition (3120 B)	0.7	10000000000
	Soron (B)	mg/L	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	APHA 23rd Edition (3120 B)		No relaxation
27 0	Cadmium (Cd)	mg/L	BQL(QL=0.002)	BQL(QL=0.002)	BQL(QL=0.002)	APHA 23rd Edition (3120 B)	0.5	1
28 0	Copper (Cu)	mg/L	BQL(QL=0.0Z)	BQL(QL=0.02)	BQL(QL=0.02)		0.003	No relaxation
29 1	.ead (Pb)	mg/L	BQL(QL=0.005)	BQL(QL=0.005)	BQL(QL=0.005)	APHA 23rd Edition (3120 B) APHA 23rd Edition (3120 B)	0.05	1.5
30 1	Manganese (Mn)	mg/L	BQL(QL=0.05)	BQL(QL=0.05)			0.01	No relaxation
31 1	Mercury (Hg)	mg/L	BQL(QL=0.0005)	BQL(QL=0.0005)	BQL(QL=0.05)	APHA 23rd Edition (3120 B)	0.1	0.3
32 5	ielenium (Se)	mg/L			BQL(QL=0.0005)	APHA 23rd Edition (3112 B)	0.001	No relaxation
	folybdenum as Mo	mg/L	BQL(QL=0.005) BQL(QL=0.01)	BQL(QL=0.005)	BQL(QL=0.005)	APHA 23rd Edition (3120 B)	0.01	No relaxation
-	fotal Chromium Cr	mg/L	BQL(QL=0.01) BOL(QL=0.07)	BQL(QL=0.01)	BQL(QL=0.01)	APHA 23rd Edition (3120 B)	0.07	No relaxation
	lickel as (Ni)	mg/L	BQL(QL=0.02)	BQL(QL=0.02)	8QL(QL=0.02)	APHA 23rd Edition (3120 B)	0.05	No relaxation
	ilver (Ag)		BQL(QL=0.01)	BQL(QL=0.01)	BQL(QL=0.01)	APHA 23rd Edition (3120 B)	0.2	No relaxation
	nionic Detergent	mg/L	BQL(QL=0.02)	BQL(QL=0.02)	BQL(QL=0.02)	APHA 23rd Edition (3120 B)	0.1	No relaxation
	AH	mg/L	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	IS 13428 (Annex K) : 2018	0.2	1
-	laphthalene		Device	-	10 201901 11 10 10 1	10 JAN 10 State	0.0001	No relaxation
		µg/L	BQL(QL=10)	BQL(QL=10)	BQL(QL=10)	APHA 6440 B		
	-Methylnapthalene	µg/L	BQL(QL=10)	BQL(QL=10)	BQL(QL=10)	APHA 6440 B	10	
	-Methylnapthalene	Hg/L	BQL(QL=10)	BQL(QL=10)	BQL(QL=10)	APHA 6440 B		
	cenaphthylene	µg/L	BQL(QL=10)	BQL(QL=10)	BQL(QL=10)	APHA 6440 B		-
	cenaphthene	µg/L	BQL(QL=10)	BQL(QL=10)	BQL(QL=10)	APHA 6440 B		
	luorene	µg/L	BQL(QL=10)	BQL(QL=10)	EQL(QL=10)	APHA 6440 B	•	
	henanthrene	Hg/L	BQL(QL=5)	BQL(QL=5)	BQL(QL=5)	APHA 6440 B	-	
	nthracene	PAPE	BQL(QL=10)	BQL(QL=10)	BQL(QL=10)	APHA 6440 B		
18.9 FI	luoranthene	HAL	BQL(QL=10)	BQL(QL=10)	BQL(QL=10)	APHA 6440 B		
8.10 P	yrene H	"HO/L	BQL(QL=10)	BQL(QL=10)	BQL(QL=10)	APHA 6440 B		
	10	151		a third the second second second				

22 11	Total Coliform	MPN/100ml	Absent	Absent	15-1622	5000
	E.Coli (MPN/100 ml)	MPN/100ml	Absent	Absent	15 1622	NS
-	Microbiological					
	Malathion	µg/L	BQL(QL=0.25)	BQL(QL=0.25)	USEPA 8141A	
	Methyl Parathion	µg/L	BQL(QL=0.05)	BQL(QL=0.05)	USEPA 8141A	
	Butachlor	µg/t:	BQL(QL=20)	BQL(QL=20)	USEPA 8141A	
	Phorate	µg/1.	BQL(QL=0.1)	BQL(QL=0.1)	USEPA 8141A	-
	Chlorpyriphos	µg/L	BQL(QL=0.25)	BQL(QL=0.25)	USEPA 8141A	
	Ethoin	µg/L	BQL(QL=0.1)	BQL(QL=0.1)	UEPA 1657A	-
1.18	Monocrotophos	Pg/L	BQL(QL=0.05)	BQL(QL=0.05)	USEPA 8141A	
1.17	Endosulfan (Sulphate)	pg/L	BQL(QL=0.05)	BQL(QL=0.05)	USEPA 508	-
1.16	Endosulfan (Beta)	µg/L	8QL(QL=0.05)	9QL(QL=0.05)	USEPA SO8	
	Endosulfan (alpha)	րց/ե	BQL(QL=0.05)	BQL(QL=0.05)	USEPA SOB	
1.14	Delta HCH	pg/L	BQL(QL=0.02)	BQL(QL=0.02)	USEPA 508	
1.13	Beta HCH	pg/L	BQL(QL=0.02)	BQL(QL=0.02)	USEPA 508	
1.12	Alpha HCH	µg/L	BQL(QL=0.005)	BQL(QL=0.005)	USEPA 508	
1.11	Gamma-HCH(Lindane)	µg/L	BQL(QL=0.1)	BQL(QL=0.1)	USEPA SOB	
1.10	Aldrin/Dieldrin	µg/L	8QL(QL=0.01)	8QL(QL=0.01)	USEPA 506	
1.9	Atrazine	µg/L	BQL(QL=0.1)	BQL(QL=0.1)	USEPA 8141A	
1.8	Alachior	µg/L	BQL(QL=0.1)	BQL(QL=0.1)	USEPA 525.2	
1.7	Isoproturon	Pg/L	BQL(QL=0.1)	BQL(QL=0.1)	USEPA 532	
1.6	p.p-DOD	μg/L	BQL(QL=0.05)	BQL(QL=0.05)	USEPA SOB	
1.5	c,p-DDD	µg/L	8QL(QL=0.05)	BQL(QL=0.05)	USEPA SOI	
1.4	p.p-DDE	µg/L	BQL(QL=0.05)	8QL(QL=0.05)	USEPA 508	
11.3	o,p-00E	pg/L	8QL(QL=0.05)	BQL(QL=0.05)	USEPA 508	
11.2	p.p-DOT	pg/L	BQL(QL=0.05)	BQL(QL=0.05)	USEPA 508 USEPA 508	· · · · ·
11.1	o,p-DDT	pg/L	BQL(QL=0.05)	BQL(QL=0.05)	INCIDA SAN	
41	Pesticides			adddr-av)	14THA 0232	NS
10.4	Chloroform	mg/L	BQL(QL=0.2)	8QL(QL=0.2)	APHA 6232	
0.3	Bromodichloromethane	nig/L	BQL(QL=0.06)	BQL(QL=0.06)	APHA 6232 APHA 6232	NS
10.2	Disromochioromethne	mg/L	BQL(QL=0.1)	BQL(QL=0.1)	Control of Long Control of Lon	NS
1.09	Bromoform	mg/L	BQL(QL=0.1)	BQL(QL=0.1)	APHA 6232	NC .
40	Tribalomethanes		and the second second		warn and	- Chi
19.7	PCB 1260	1/24	BQE(QE=0.03)	BQL(QL=0.03)	USEPA 508	NS NS
39.6	PCB 1254	pg/L	BQL(QL=0.03)	BQL(QL=0.03)	USEPA 508	NS
39.5	PCB 1248	.//gq	BQL(QL=0.03)	BQL(QL=0.03)	USEPA SOB	NS
39.4	PCB 1242	195/L	BQL(QL=0.03)	RQL(QL=0.03)	USEPA 308	NS
39.3	PCB 1232	μg/L	BQL(QL=0.03)	BQL(QL=0.03)	USEPA 508	NS
39.2	PCB 1221	pg/t.	BQL(QL=0.03)	BQL(QL=0.03)	USEPA 508	NS
39.1	PCB 1016	µg/L	BQL(QL=0.03)	BQL(QL=0.03)	USEPA 508	NS
39	Polychlorinated biphenyles				1010101010	
38.18	Indenoi(1,2,3-cd)pyrene	Ma/L	BQL(QL=10)	BQL(QL=10)	APHA 6440 B	
38.17	Benzo (g,h,i)perylene	µg/L	8QL(QL=10)	BQL(QL=10)	APHA 6440 B	
38.16	Dibenzo(a,h)anthracene	µg/L	BQL(QL=10)	BQL(QL=10)	APHA 6440 B	
38.15	Benzo(a)pyrene	µg/L	BQL(QL=10)	BQL(QL=10)	APHA 6440 B	
38.14	Benzo(K) Ruorantheoe	Hg/L	BQL(QL=10)	BQL(QL=10)	APHA 6440 8 APHA 6440 8	
38.13	Benzo (b) fluoranthene	pg/L	BQL(QL=10)	BQL(QL=10)	APHA 6440 B	1
38.12	Chrysene	µg/L	BQL(QL=10)	BQL(QL=10) BQL(QL=10)	APHA 6440 B	
38.11	Benzo(a) anthracene	ug/L	8QL(QL=10)	BQL(QL=10) BQL(QL=10)	APHA 6440 B	
38.10	Pyrene	µg/L	BQL(QL=10) BQL(QL=10)	BQL(QL=10)	APHA 6440 B	-
38.9	Fluoranthene	Pgq. Pg/L	BQL(QL=10) BCL(QL=10)	BQL(QL=10)	APHA 6440 B	-
38.8	Anthracene	J/gq Feu	BQL(QL=5)	BQL(QL=5)	APHA 6440 B	
38.7	Phenanthrene	µg/L	BQL(QL=10)	BQL(QL=10)	APHA 6440 B	1. 100
38.6	Ruorene	µg/L	BQL(QL=10)	BQL(QL=10)	APHA 6440 B	
38.5	Acenaphthene	pg/L	BQL(QL=10)	BQL(QL=10)	APHA 6440 B	
38.4	Acenaphthylene	Pg/L	BQL(QL=10)	BQL(QL=10)	APHA 6440 8	
38.3	2-Methylnapthalene	µg/1_	BQL(QL=10)	BQL(QL=10)	APHA 6440 B	+:
38.2	1-Methylnapthalene	- 5110 C			701010100	-
38.1	Naphthalene	µg/L	BQL(QL=10)	BQL(QL=10)	APHA 6440 B	-

Approved By: Pankil Patel

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Analysed By: Shi H4KB.

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Vardan EnviroLab Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr)

ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number:	VEL/W/02	Report No.:	VEL/W/2308010005
Name & Address of the Party:	M/s Mahan Energen Limited	Format No.:	7.8 F-03
	Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli,	Party Reference No.:	5703009832 Date : 14/06/2023
	Madhya Pradesh - 486886	Reporting Date:	05/08/2023
		Period of Analysis:	01/08/2023 - 05/08/2023
		Receipt Date:	01/08/2023
		Sampling Date:	25/07/2023
Sample Description:	Ground Water Sample (Piezometer)	Sampling Quantity:	5 Ltrs. + 250 ml
Location:	Piezometer #1 NNE (Near AWRS)	Sampling Type:	Grab
Sample Collected By:	VEL Representative (Mr. Amit Pandey)	Preservation:	Ice Box
Sampling and Analysis Protocol:	IS: 3025, APHA 23rd Edition 2017 & STP	Parameter Required:	As Per Work Order
Ground Water Level:	4.48 meter		

S. No.	rotale Varian Palara	Vendar Luvretan Verdan Lovers. Los Verdan Erivirol de Verdan Lovers. Vendar Verdan Street de Verdan Love	on an one of the original		Limits As Per IS: 10500-2012	
	Parameters	Test Method	Results	Units	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
Table 1	Organoleptic and Physica	I Parameters				
L	pH (at 25°C)	IS: 3025 (P-11)	7.33	**	6.5 to 8.5	No Relaxation
2.	Colour	IS: 3025 (P-4)	*BLQ(**LOQ-1.0)	Hazen	5	15
3.	Turbidity	IS: 3025 (P-10)	*BLQ(**LOQ-1.0)	NTU	1	5
4.	Odour	IS: 3025 (P-5)	Agreeable		Agreeable	Agreeable
5.	Taste	IS: 3025 (P-8)	Agreeable	**	Agreeable	Agreeable
6.	Total Dissolved Solids	IS: 3025 (P-16)	535.00	mg/L	500	2000
Table 2	General Parameters Conce	rning Substances Undesirable in Excessive	Amounts			
7.	Calcium as Ca	IS: 3025 (P-40)	85.39	mg/L	75	200
8.	Total Alkalinity as CaCO3	IS: 3025 (P-23)	158.02	mg/L	200	600
9,	Chloride as Cl	IS: 3025 (P-32)	188.55	mg/L	250	1000
10,	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	16.16	mg/L	30	100
11.	Total Hardness as CaCO3	IS: 3025 (P-21)	279.55	mg/L	200	600
12.	Sulphate as SO4	IS: 3025 (P-24)	121.48	mg/L	200	400
13.	Fluoride as F	APHA, 4500 F D, SPADNS Method	0.58	mg/L	1.0	1.5



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Vardan EnviroLab Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample	e No.: VEL/W/02		int skuerius Tan	ol al	Report No.: VEL	/W/2308010005	
(or ap	Parameters	de Vandar Envirolach Surdan (nei ol	So Mardian Envirolab	Cordan	Limits As Per IS: 10500-2012		
S. No.		Test Method	Results	Units	Requirement (Acceptable) Limit	Permissible Limit in the Absence of Alternate Source	
14.	Nitrate as NO3	IS: 3025 (P-34)	13.22	mg/L	45	No Relaxation	
15.	Iron as Fe	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	0.27	mg/L	1.0	No Relaxation	
16.	Aluminium as Al	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	1.65	mg/L	0.03	0.2	
17.	Boron as B	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.1)	mg/L	0.5	2.4	
18.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021			0.05	No Relaxation	
19.	Phenolic Compounds as C ₀ H ₃ OH	15: 2025 (P 42)		mg/L	0.001	0.002	
20.	Mineral Oil	IS: 3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L	1.0	No Relaxation	
21.	Anionic Detergents as MBAS	IS: 3025 (P-68)	*BLQ(**LOQ-0.05)	LOQ-0.05) mg/L 0.2		1.0	
22.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	2.33	mg/L	5.0	15.0	
23.	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	
24.	Manganese as Mn	VEL/STP/ICP/W-01, 1ssue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.1)	mg/L	0.1	0.3	
25.	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	
Table 3	Parameters Concerning T	oxic Substances					
26.	Cadmium as Cd	VEL/STP/ICP/W-01, 1ssue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.002)	mg/L	0.003	No Relaxation	
27.	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	
28,	Cyanide as CN	IS: 3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L	0.05	No Relaxation	
29.	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	
30,	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	



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Sample	No.: VEL/W/02	A Constant of the second s		The second second	Report No.: Y	VEL/W/2308010005	
11:33	States States M	Na Word and Leave to a		tal Vardure	Limits As Per IS: 10500-2012		
S. No.	Parameters	Test Method	Results	Units	Requirement (Acceptable) Limit	Permissible Limit in the Absence of Alternate Source	
Table 6	Bacteriological Qual	ity of Drinking Water					
31.	Total Coliform	IS: 15185:2016	Absent	Per 100 ml	Shall not be detectable in any 100 ml sample		
32.	E. coli	IS: 15185:2016	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 Sept. 2018 (Limit of Boron & IS Method of Total Coliform & E. coli) & Amendment No.3 in Feb. 2021 (Limit of Mineral Oil).

Dy. Technical Manager

End of Report



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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number:	VEL/W/03	Report No.:	VEL/W/2308010006
Name & Address of the Party:	M/s Mahan Energen Limited	Format No.:	7.8 F-03
	Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli,	Party Reference No.:	5703009832 Date : 14/06/2023
	Madhya Pradesh - 486886	Reporting Date:	05/08/2023
		Period of Analysis:	01/08/2023 - 05/08/2023
		Receipt Date:	01/08/2023
		Sampling Date:	25/07/2023
Sample Description:	Ground Water Sample (Piezometer)	Sampling Quantity:	5 Ltrs. + 250 ml
Location:	Piezometer #2 ESS	Sampling Type:	Grab
Sample Collected By:	VEL Representative (Mr. Amit Pandey)	Preservation:	Ice Box
Sampling and Analysis Protocol:	IS: 3025, APHA 23rd Edition 2017 & STP	Parameter Required:	As Per Work Order
Ground Water Level:	2.31 meter		

S. No.	ab Vardan Enviroitat	Vordan Envirosativ Vardam Enviros		A COLLEGE	Limits As Per IS: 10500-2012	
	Parameters	Test Method	Results	Units	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
Table 1	Organoleptic and Physica	I Parameters				Conception and the
1.	pH (at 25°C)	IS: 3025 (P-11)	7.53	-	6.5 to 8.5	No Relaxation
2.	Colour	IS: 3025 (P-4)	*BLQ(**LOQ-1.0)	Hazen	5	15
3.	Turbidity	1S: 3025 (P-10)	*BLQ(**LOQ-1.0)	NTU	1	5
4.	Odour	IS: 3025 (P-5)	Agreeable		Agreeable	Agreeable
5.	Taste	IS: 3025 (P-8)	Agreeable	**	Agreeable	Agreeable
6.	Total Dissolved Solids	IS: 3025 (P-16)	435.00	mg/L	500	2000
Table 2	General Parameters Conce	erning Substances Undesirable in Excessive	Amounts			
7.	Calcium as Ca	IS: 3025 (P-40)	42.05	mg/L	75	200
8.	Total Alkalinity as CaCO3	IS: 3025 (P-23)	58.1	mg/L	200	600
9.	Chloride as Cl	IS: 3025 (P-32)	69.59	mg/L	250	1000
10.	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	25.42	mg/L	30	100
11.	Total Hardness as CaCO3	IS: 3025 (P-21)	201.33	mg/L.	200	600
12.	Sulphate as SO4	IS: 3025 (P-24)	38.77	mg/L	200	400
13.	Fluoride as F	APHA, 4500 F D, SPADNS Method	0.62	mg/L	1.0	1.5



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Vardan EnviroLab Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample	No.: VEL/W/03		STOLEN CONSTITUTION	1232	Report No.: VEL	/W/2308010006
01=0	Carriel Confectab V	entral Entylingt day Valuetin Environ	ata Wardina Ketera ata	midan	Limits As Per IS: 10500-2012	
S. No.	Parameters	Test Method	Results	Units	Requirement (Acceptable) Limit	Permissible Limit in the Absence of Alternate Source
14.	Nitrate as NO3	IS: 3025 (P-34)	9.87	mg/L	45	No Relaxation
15.	Iron as Fe	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	0.19	mg/L	1.0	No Relaxation
16.	Aluminium as Al	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	2.01	mg/L	0.03	0.2
17.	Boron as B	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.1)	mg/L	0.5	2.4
18.	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
19.	Phenolic Compounds as C ₆ H ₅ OH	IS: 3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L	0.001	0.002
20.	Mineral Oil	IS: 3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L	1.0	No Relaxation
21.	Anionic Detergents as MBAS	IS: 3025 (P-68)	*BLQ(**LOQ-0.05)	mg/L	0.2	1.0
22.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	2.98	mg/L	5.0	15.0
23.	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
24.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.1)	mg/L	0.1	0.3
25.	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
Table 3	Parameters Concerning 'l	l'oxic Substances				
26.	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
27.	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
28.	Cyanide as CN	IS: 3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L	0.05	No Relaxation
29.	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
30.	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



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Sample	No.: VEL/W/03	daving the production is	A STREET	1.440	Report No.: \	VEL/W/2308010006
which we have the been als vie the Covenies of A			vierdau covind	al Vardam	Limits As Pe 1S: 10500-20	212
S. No.	Parameters	Test Method	Results	Units	Requirement (Acceptable) Limit	Permissible Limit in the Absence of Alternate Source
Table 6	Bacteriological Qual	ity of Drinking Water	C. I. I. I. I.			
31.	Total Coliform	IS: 15185:2016	Absent	Per 100 ml	Shall not be detectable in any 100 ml sample	
32.	E. coli	IS: 15185:2016	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 Sept. 2018 (Limit of Boron & IS Method of Total Coliform & E. coli) & Amendment No.3 in Feb. 2021 (Limit of Mineral Oil).

(Checked/By

Dy. Technical Manager-Micro

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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number:	VEL/W/04	Report No.:	VEL/W/2308010007
Name & Address of the Party:	M/s Mahan Energen Limited	Format No.:	7.8 F-03
	Village: Bandhora, Post: Karsualal, Tabell, Mada, Diett - Simmerki	Party Reference No.:	5703009832 Date : 14/06/2023
	Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886	Reporting Date:	05/08/2023
		Period of Analysis:	01/08/2023 - 05/08/2023
		Receipt Date:	01/08/2023
		Sampling Date:	25/07/2023
Sample Description:	Ground Water Sample (Piezometer)	Sampling Quantity:	5 Ltrs. + 250 ml
Location:	Piezometer #3 SWW	Sampling Type:	Grab
Sample Collected By:	VEL Representative (Mr. Amit Pandey)	Preservation:	Ice Box
Sampling and Analysis Protocol:	IS: 3025, APHA 23rd Edition 2017 & STP	Parameter Required:	As Per Work Order
Ground Water Level:	1.94 meter		

	nter et alle Marchine Trave nte Varraine Trever et al	renais Vientier Environations dan En- vordan I nversital Varian Servication	elitet be tardimente le Varoine Levely ou les	Units	Limits As Per IS: 10500-2012	
S. No.	Parameters	Test Method	Results		Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
Table 1	Organoleptic and Physica	Parameters			has the front	
1.	pH (at 25°C)	1S: 3025 (P-11)	7.24		6.5 to 8.5	No Relaxation
2.	Colour	IS: 3025 (P-4)	*BLQ(**LOQ-1.0)	Hazen	5	15
3.	Turbidity	IS: 3025 (P-10)	*BLQ(**LOQ-1.0)	NTU	1	5
4.	Odour	IS: 3025 (P-5)	Agreeable		Agreeable	Agreeable
5.	Taste	IS: 3025 (P-8)	Agreeable		Agreeable	Agreeable
6.	Total Dissolved Solids	IS: 3025 (P-16)	469.00	mg/L	500	2000
Table 2	General Parameters Conce	rning Substances Undesirable in Excessive	Amounts	Sec. in		
7.	Calcium as Ca	IS: 3025 (P-40)	58.32	mg/L	75	200
8.	Total Alkalinity as CaCO3	IS: 3025 (P-23)	86.35	mg/L	200	600
9.	Chloride as Cl	IS: 3025 (P-32)	79,58	mg/L	250	1000
10.	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	21.99	mg/L	30	100
11.	Total Hardness as CaCO3	1S: 3025 (P-21)	236.01	mg/L	200	600
12.	Sulphate as SO4	IS: 3025 (P-24)	39.24	mg/L	200	400
13.	Fluoride as F	APHA, 4500 F D, SPADNS Method	0.6	mg/L	1.0	1.5



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Vardan EnviroLab Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample	: No.: VEL/W/04		and shall all the starter and a	- 1	Report No.: VEL	/W/2308010007
ot li	In data Envirolate V	initia naviati so Vita n Procos	Nerdan, Lowest, H	Variant	Limits As Per IS: 10500-2012	
S. No.	Parameters	Test Method	and the second se	Units	Requirement (Acceptable) Limit	Permissible Limit in the Absence of Alternate Source
14.	Nitrate as NO3	1S: 3025 (P-34)	12.01	mg/L	45	No Relaxation
15.	Iron as Fe	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	0.16	mg/L	1.0	No Relaxation
16.	Aluminium as Al	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	1.26	mg/L	0.03	0.2
17.	Boron as B	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.1)	mg/L	0.5	2.4
18.	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
19.	Phenolic Compounds as C6H3OH	IS: 3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L	0.001	0.002
20.	Mineral Oil	IS: 3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L	1.0	No Relaxation
21.	Anionic Detergents as MBAS	IS: 3025 (P-68)	*BLQ(**LOQ-0.05)	mg/L	0.2	1.0
22.	Zine as Zn	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	2.74	mg/L	5.0	15.0
23.	Copper as Cu	VEL/STP/ICP/W-01, 1ssue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.002)	mg/L	0.05	1.5
24.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.1)	mg/L	0.1	0.3
25.	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
Table 3	Parameters Concerning T	oxic Substances				
26.	Cadmium as Cd	VEL/STP/ICP/W-01, 1ssue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.002)	mg/L	0.003	No Relaxation
27.	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
28.	Cyanide as CN	IS: 3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L	0.05	No Relaxation
29,	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
30.	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



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Parameters	le de com my li atet	Friday Lowing		Limite As De				
Parameters		Perdan Lovico	THE A DUCK	Limits As Per IS: 10500-2012				
	Test Method	Results	Units	Requirement (Acceptable) Limit	Permissible Limit in the Absence of Alternate Source			
lacteriological Qual	lity of Drinking Water		, -					
Total Coliform	IS: 15185:2016	Absent	Per 100 ml	Shall not be detectable in any 100 ml sample				
E. coli	IS: 15185:2016	Absent	Per 100 ml	Shall not be detectable in any 100 ml sample				
		IS: 15185:2016	IS: 15185:2016 Absent	IS: 15185:2016 Absent Per 100 ml	IS: 15185:2016 Absent Per 100 ml Shall not be detectable in any			

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 Sept. 2018 (Limit of Boron & IS Method of Total Coliform & E. coli) & Amendment No.3 in Feb. 2021 (Limit of Mineral Oil).

End of Report

(Checked By) Dy, Technical Manager-Micro

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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number:	VEL/W/05	Report No.:	VEL/W/2308010008
Name & Address of the Party:	M/s Mahan Energen Limited	Format No.:	7.8 F-03
	Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli,	Party Reference No.:	5703009832 Date : 14/06/2023
	Madhya Pradesh - 486886	Reporting Date:	05/08/2023
		Period of Analysis:	01/08/2023 - 05/08/2023
		Receipt Date:	01/08/2023
		Sampling Date:	25/07/2023
Sample Description:	Ground Water Sample (Piezometer)	Sampling Quantity:	5 Ltrs. + 250 ml
Location:	Piezometer #4 WWN	Sampling Type:	Grab
Sample Collected By:	VEL Representative (Mr. Amit Pandey)	Preservation:	Ice Box
Sampling and Analysis Protocol:	IS: 3025, APHA 23rd Edition 2017 & STP	Parameter Required:	As Per Work Order
Ground Water Level:	1.93 meter	neero neero neero neero se	

	windowEnview.ab.y	o Version Taxa alab Version any rolate Version a	whether the state fair	ret alter	Limits As Per IS: 10500-2012	
S. No.	Parameters	Test Method	Results	Units	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
Table 1	Organoleptic and Physica	1 Parameters		T.		111
1.	pH (at 25°C)	IS: 3025 (P-11)	7.68		6.5 to 8.5	No Relaxation
2.	Colour	IS: 3025 (P-4)	*BLQ(**LOQ-1.0)	Hazen	5	15
3.	Turbidity	IS: 3025 (P-10)	*BLQ(**LOQ-1.0)	NTU	1	5
4.	Odour	IS: 3025 (P-5)	Agreeable		Agreeable	Agreeable
5.	Taste	IS: 3025 (P-8)	Agreeable	**	Agreeable	Agreeable
6.	Total Dissolved Solids	IS: 3025 (P-16)	386.00	mg/L	500	2000
Table 2	General Parameters Conce	rning Substances Undesirable in Excessive	Amounts			
7.	Calcium as Ca	IS: 3025 (P-40)	33.07	mg/L	75	200
8.	Total Alkalinity as CaCO3	IS: 3025 (P-23)	64.59	mg/L	200	600
9.	Chloride as Cl	IS: 3025 (P-32)	52.59	mg/L	250	1000
10.	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	7.27	mg/L	30	100
11.	Total Hardness as CaCO3	IS: 3025 (P-21)	112.43	mg/L	200	600
12.	Sulphate as SO4	IS: 3025 (P-24)	24.69	mg/L	200	400
13.	Fluoride as F	APHA, 4500 F D, SPADNS Method	0.46	mg/L	1.0	1.5



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Vardan EnviroLab Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample	e No.: VEL/W/05		TONE DAY THE RECORD	1	Report No.: VEL	/W/2308010008
Ew	of DE Vandun Enviro Bernstein reihend als V	an varder Generate Verter fo	dent devindent free	o Earb y	Limits As Per IS: 10500-2012	
S. No.	Parameters	Test Method	Results	Units	Requirement (Acceptable) Limit	Permissible Limit in the Absence of Alternate Source
14.	Nitrate as NO3	IS: 3025 (P-34)	6.24	mg/L	45	No Relaxation
15.	Iron as Fe	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	0.16	mg/L	1.0	No Relaxation
16.	Aluminium as Al	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	1.91	mg/L	0.03	0.2
17.	Boron as B	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.1)	mg/L	0.5	2.4
18.	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
19.	Phenolic Compounds as C ₆ H ₃ OH	IS: 3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L	0.001	0.002
20,	Mineral Oil	IS: 3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L	1.0	No Relaxation
21.	Anionic Detergents as MBAS	IS: 3025 (P-68)	*BLQ(**LOQ-0.05)	mg/L	0.2	1.0
22.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	2.55	mg/L	5.0	15.0
23.	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
24.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.1)	mg/L	0.1	0.3
25,	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
Table 3	Parameters Concerning T	'oxic Substances	Contraction (Contraction (Contraction))			
26.	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
27.	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
28.	Cyanide as CN	IS: 3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L	0.05	No Relaxation
29.	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
30.	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



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Sample	e No.: VEL/W/05	Same and the second second	Report No.: VEL/W/2308010008						
	- A Vanile Lav	Tel els stanles same	an yacher	Translate Va	Limits As Per IS: 10500-2012				
S. No.	Parameters	Test Method	Results			Permissible Limit in the Absence of Alternate Source			
Table 6	Bacteriological Qual	ity of Drinking Water		_					
31.	Total Coliform	IS: 15185:2016	Absent	Per 100 ml	Shall not be detectable in any 100 ml sample				
32.	E. coli	IS: 15185:2016	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 Sept. 2018 (Limit of Boron & IS Method of Total Coliform & E. coli) & Amendment No.3 in Feb. 2021 (Limit of Mineral Oil).

108/2023 (Checked By SATYA DEV Dy, Technical Manager-Micro

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Location:

ardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number: Name & Address of the Party:

VEL/W/01 M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886

Sample Description: Sample Collected By: Sampling and Analysis Protocol:

Ground Water Sample Village - Baundhra (Near Primary School) VEL Representative (Mr. Amit Pandey) IS: 3025, APHA 23rd Edition 2017 & STP

Format No.: Party Reference No.: **Reporting Date:** Period of Analysis:

Report No.:

Receipt Date: Sampling Date: Sampling Quantity: Sampling Type: Preservation: Parameter Required:

VEL/W/2308280006 7.8 F-03 5703009832 Date : 14/06/2023 04/09/2023 28/08/2023 - 04/09/2023

28/08/2023 19/08/2023 5 Ltrs. + 250 ml Grab Ice Box As Per Work Order

	Parameters	of a clock i will a way out war of the	The state winder Cash		Limits As Per IS: 10500-2012	
S. No.		Test Method	Results	Units	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
Table 1	Organoleptic and Physica	1 Parameters				
L	pH (at 25°C)	IS: 3025 (P-11)	7.54	-	6.5 to 8.5	No Relaxation
2.	Colour	IS: 3025 (P-4)	*BLQ(**LOQ-1.0)	Hazen	5	15
3.	Turbidity	IS: 3025 (P-10)	*BLQ(**LOQ-1.0)	NTU	1	5
4.	Odour	IS: 3025 (P-5)	Agreeable		Agreeable	Agreeable
5.	Taste	1S: 3025 (P-8)	Agreeable	**	Agreeable	Agreeable
6.	Total Dissolved Solids	IS: 3025 (P-16)	372.00	mg/L	500	2000
Fable 2	General Parameters Conco	erning Substances Undesirable in Excessive	Amounts			
7.	Calcium as Ca	IS: 3025 (P-40)	42.00	mg/L	75	200
8.	Total Alkalinity as CaCO3	IS: 3025 (P-23)	156.00	mg/L	200	600
9.	Chloride as Cl	IS: 3025 (P-32)	82.00	mg/L	250	1000
10.	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	20.22	mg/L	30	100
11.	Total Hardness as CaCO3	IS: 3025 (P-21)	188.00	mg/L	200	600
12.	Sulphate as SO4	IS: 3025 (P-24)	56.00	mg/L	200	400
13.	Fluoride as F	APHA, 4500 FD, SPADNS Method	0.35	mg/L	1.0	1.5



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Test Report

Sample	e No.: VEL/W/01			100	Report No.: VEL	/W/2308280006
	Territoria and		2 Production of the second	i eg	The second se	As Per 500-2012
S. No.	Parameters	Test Method	Results	Units	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
14.	Nitrate as NO ₃	IS: 3025 (P-34)	10.60	mg/L	45	No Relaxation
15.	Iron as Fe	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	0.045	mg/L	1.0	No Relaxation
16.	Aluminium as Al	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.05)	mg/L	0.03	0.2
17.	Boron as B	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.1)	mg/L	0.5	2.4
18.	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
19.	Phenolic Compounds as C ₆ H ₅ OH	IS: 3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L	0.001	0.002
20.	Mineral Oil	IS: 3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L	1.0	No Relaxation
21.	Anionic Detergents as MBAS	IS: 3025 (P-68)	*BLQ(**LOQ-0.05)	mg/L	0.2	1.0
22.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	0.028	mg/L	5.0	15.0
23.	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
24.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.1)	mg/L	0,1	0.3
25.	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
Table 3	Parameters Concerning T	oxic Substances				
26.	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
27.	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
28.	Cyanide as CN	1S: 3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L	0.05	No Relaxation
29.	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
30.	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



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Sample	e No.: VEL/W/01	A 12 CONTRACT	12 Zur Mel	and the starting of	Report No.: 1	VEL/W/2308280006
4 19 1			Carles Carles	A Langer La	Limits As Pe IS: 10500-20	
S. No.	Parameters	Test Method	Results	Units	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
Table 6	Bacteriological Qual	ity of Drinking Water			the set of the last	
31.	Total Coliform	IS: 15185:2016	Absent	Per 100 ml	Shall not be detectable in any 100 ml sample	-
32.	E. coli	IS: 15185:2016	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 Sept. 2018 (Limit of Boron & IS Method of Total Coliform & E. coli) & Amendment No.3 in Feb. 2021 (Limit of Mineral Oil).

End of Report

(Checked By NDRABHAN SINGH Sr. Microbiologist

Page No. 3 of 3



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Vardan EnviroLa

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Test Report

VEL/W/2308280007 **VEL/W/02** Sample Number: Report No.: 7.8 F-03 Name & Address of the Party: M/s Mahan Energen Limited Format No.: Village: Bandhora, Post: Karsualal, 5703009832 Party Reference No.: Date : 14/06/2023 Tehsil: Mada, Distt.: Singrauli, **Reporting Date:** 04/09/2023 Madhya Pradesh - 486886 Period of Analysis: 28/08/2023 - 04/09/2023 28/08/2023 **Receipt Date:** 19/08/2023 Sampling Date: Sample Description: **Ground Water Sample** Sampling Quantity: 5 Ltrs. + 250 ml Location: Village - Ralla (Near Primary School) Sampling Type: Grab Sample Collected By: VEL Representative (Mr. Amit Pandey) Preservation: Ice Box IS: 3025, APHA 23rd Edition 2017 & STP Sampling and Analysis Protocol: Parameter Required: As Per Work Order

	an outer and an terr	that the Longer Second World with		The s	Limits As Per IS: 10500-2012	
S. No.	Parameters	Test Method	Results	Units	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
Table 1	Organoleptic and Physica	I Parameters				
4	pH (at 25°C)	IS: 3025 (P-11)	7.65		6.5 to 8.5	No Relaxation
2.	Colour	IS: 3025 (P-4)	*BLQ(**LOQ-1.0)	Hazen	5	15
3,	Turbidity	IS: 3025 (P-10)	*BLQ(**LOQ-1.0)	NTU	1	5
4.	Odour	IS: 3025 (P-5)	Agreeable	1.1.22	Agreeable	Agreeable
5.	Taste	IS: 3025 (P-8)	Agreeable		Agreeable	Agreeable
6.	Total Dissolved Solids	1S: 3025 (P-16)	338.00	mg/L	500	2000
Table 2	General Parameters Conce	rning Substances Undesirable in Excessive	Amounts			
7.	Calcium as Ca	IS: 3025 (P-40)	52.00	mg/L	75	200
8.	Total Alkalinity as CaCO3	IS: 3025 (P-23)	188.00	mg/L	200	600
9.	Chloride as Cl	1S: 3025 (P-32)	75.00	mg/L	250	1000
10.	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	19.99	mg/L	30	100
11.	Total Hardness as CaCO3	IS: 3025 (P-21)	212.00	mg/L	200	600
12.	Sulphate as SO4	IS: 3025 (P-24)	38.00	mg/L	200	400
13.	Fluoride as F	APHA, 4500 FD, SPADNS Method	0.42	mg/L	1.0	1.5



Page No. 1 of 3



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Vardan EnviroLa

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample	e No.: VEL/W/02		and the same similar	1	Report No.: VEL	/W/2308280007
200			The second second	1000		As Per 500-2012
S. No.	Parameters	Test Method	Results	Units	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
14.	Nitrate as NO3	1S: 3025 (P-34)	6.50	mg/L	45	No Relaxation
15.	Iron as Fe	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	Issue Date : 01/11/2021 0.054		1.0	No Relaxation
16.	Aluminium as Al	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.05)	mg/L	0.03	0.2
17.	Boron as B	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.1)	mg/L	0.5	2.4
18.	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
19.	Phenolic Compounds as C6H5OH	IS: 3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L	0.001	0.002
20,	Mineral Oil	IS: 3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L	1.0	No Relaxation
21.	Anionic Detergents as MBAS	IS: 3025 (P-68)	*BLQ(**LOQ-0.05)	mg/L	0.2	1.0
22.	Zine as Zn	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	0.038	mg/L	5.0	15.0
23.	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
24.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.1)	mg/L	0.1	0.3
25.	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
Table 3	Parameters Concerning T	oxic Substances				
26.	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
27.	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
28.	Cyanide as CN	IS: 3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L	0.05	No Relaxation
29.	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
30,	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



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Sample	No.: VEL/W/02		ALL DOOL	Sandard and all	Report No.: 1	VEL/W/2308280007	
	Contraction of the	webs with a manager start of the		Part of the	Limits As Per IS: 10500-2012		
S. No.	Parameters	Test Method		Units	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
i able o	Bacteriological Qu	ality of Drinking Water					
31.	Total Coliform	IS: 15185:2016	Absent	Per 100 ml	Shall not be detectable in any 100 ml sample		
32.	E. coli	IS: 15185:2016	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 Sept. 2018 (Limit of Boron & IS Method of Total Coliform & E. coli) & Amendment No.3 in Feb. 2021 (Limit of Mineral Oil).

End of Report

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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number:	VEL/W/03	Report No.:	VEL/W/2308280008
Name & Address of the Party:	M/s Mahan Energen Limited	Format No.:	7.8 F-03
	Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli,	Party Reference No.:	5703009832 Date : 14/06/2023
	Madhya Pradesh - 486886	Reporting Date:	04/09/2023
	indaya i nacoa noocoo	Period of Analysis:	28/08/2023 - 04/09/2023
		Receipt Date:	28/08/2023
		Sampling Date:	19/08/2023
Sample Description:	Ground Water Sample	Sampling Quantity:	5 Ltrs. + 250 ml
Location:	Village – Karshwa Raja (Near Karshwa Raja Market)	Sampling Type:	Grab
Sample Collected By:	VEL Representative (Mr. Amit Pandey)	Preservation:	Ice Box
Sampling and Analysis Protocol:	IS: 3025, APHA 23rd Edition 2017 & STP	Parameter Required:	As Per Work Order

	2 States and the	Provide Strength - Lawrence (1999)		1005W	Limits As Per IS: 10500-2012	
S. No.	Parameters	Test Method	Results	Units	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
Table 1	Organoleptic and Physica	I Parameters				
1.	pH (at 25°C)	IS: 3025 (P-11)	7.48		6.5 to 8.5	No Relaxation
2.	Colour	IS: 3025 (P-4)	*BLQ(**LOQ-1.0)	Hazen	5	15
3.	Turbidity	1S: 3025 (P-10)	*BLQ(**LOQ-1.0)	NTU	1	5
4.	Odour	IS: 3025 (P-5)	Agreeable		Agreeable	Agreeable
5.	Taste	IS: 3025 (P-8)	Agreeable		Agreeable	Agreeable
6.	Total Dissolved Solids	IS: 3025 (P-16)	335.00	mg/L	500	2000
Fable 2	General Parameters Conce	rning Substances Undesirable in Excessive	Amounts			
7.	Calcium as Ca	IS: 3025 (P-40)	58.00	mg/L	75	200
8.	Total Alkalinity as CaCO3	IS: 3025 (P-23)	176.00	mg/L	200	600
9.	Chloride as Cl	IS: 3025 (P-32)	65.00	mg/L	250	1000
10.	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	14.89	mg/L	30	100
11.	Total Hardness as CaCO3	IS: 3025 (P-21)	206.00	mg/L	200	600
12.	Sulphate as SO ₄	IS: 3025 (P-24)	35.00	mg/L	200	400
13.	Fluoride as F	APHA, 4500 FD, SPADNS Method	0.38	mg/L	1.0	1.5



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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample	e No.: VEL/W/03		and a standard of	1	Report No.: VEL	/W/2308280008
			The Lord Party	1250	Limits As Per IS: 10500-2012	
S. No.	Parameters	Test Method	Results	Units	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
14.	Nitrate as NO3	1S: 3025 (P-34)	5.90	mg/L	45	No Relaxation
15.	Iron as Fe	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	0.017	mg/L	1.0	No Relaxation
16.	Aluminium as Al	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.05)	mg/L	0.03	0.2
17.	Boron as B	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	VEL/STP/ICP/W-01, Issue No 01, *BLQ(**LOQ-0.1)		0.5	2.4
18.	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
19.	Phenolic Compounds as C ₆ H ₃ OH	IS: 3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L	0.001	0.002
20.	Mineral Oil	IS: 3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L	1.0	No Relaxation
21.	Anionic Detergents as MBAS	1S: 3025 (P-68)	*BLQ(**LOQ-0.05)	mg/L	0.2	1.0
22.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	0.020	mg/L	5.0	15.0
23.	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
24.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.1)	mg/L	0.1	0.3
25.	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
Fable 3	Parameters Concerning T	oxic Substances				
26.	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
27.	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
28.	Cyanide as CN	IS: 3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L	0.05	No Relaxation
29.	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
30.	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



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Sample	No.: VEL/W/03	and a strike the second		1 August	Report No.:	VEL/W/2308280008	
Town & Souther to		inter als the Surry - Ar	Technics and a	a cher an Sil	Limits As Per 1S: 10500-2012		
S. No.	Parameters	Test Method	Results	Units	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
Table 6	Bacteriological Qual	ity of Drinking Water	CULT				
31.	Total Coliform	IS: 15185:2016	Absent	Per 100 ml	Shall not be detectable in any 100 ml sample		
32.	E. coli	IS: 15185:2016	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 Sept. 2018 (Limit of Boron & IS Method of Total Coliform & E. coli) & Amendment No.3 in Feb. 2021 (Limit of Mineral Oil).

End of Report

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			GO Green Mech	anisms Pvt Ltd	The second s	
		Anal	ysis Results for th	e Month of April	22	
Compar	ny Name		Mahan Energen		-25	
Sample	Туре		Surface Water	Limited.		
Sample	Quantity		Strace water		and the second second	
	Collected By					
the second s	Sampling		Laboratory Repr	esentative		
the second s	Period		17.04.2023 to. 22.0			
SL. No.				cation		
SL. NO.	PARAMETER	UNIT	Nr. Gate No. 1	Nr. Gate No. 3	Reference Method	Norms
1	pH @ 25 ℃	-	7.41	7.35	IS 3025-Part 11	9.5
2	Turbidity	NTU	BQL(QL=0.1)	BQL(QL=0.1)	APHA 23rd Edition (2130 B)	8.5
3	Total Dissolved Solids @ 180 °C	mg/L	411.0	341.0	APHA 23rd Edition (2540 C)	1500
4	Total Hardness as CaCO ₃	mg/L	212.0	148.0	APHA 23rd Edition (2340 C)	1500
5	Alkalinity as CaCO3	mg/L	205.0	193.3	APHA 23rd Edition (2340 C) APHA 23rd Edition (2320 B)	-
б	Calcium as Ca	mg/L	62.52	43.29	APHA 23rd Edition (2320 B) APHA 23rd Edition (3120 B)	200
7	Magnesium (Mg)	mg/L	13.61	9.72		75
8	Sulphate	mg/L	28.83	29.41	APHA 23rd Edition (3120 B)	-
9	Nitrate	mg/L	0.59	0.36	APHA 23rd Edition (4500 SO4 E)	400
10	Iron	mg/L	0.106	0.484	15 3025 (Part 34)	50
11	Fluoride	mg/L	BQL(QL=0.1)	BQL(QL=0.1)	APHA 23rd Edition (3120 B)	50
12	Sulphide	mg/L	BQL(QL=0.2)	BQL(QL=0.2)	APHA 23rd Edition (4500 F D)	1.5
13	Zinc (Zn)	mg/L	0.074	BQL(QL=0.02)	APHA 23rd Edition (4500 S2 F)	
14	Chloride	mg/L	90.97	58.98	APHA 23rd Edition (3120 B)	15
15	Residual Chlorine	mg/L	BQL(QL=0.05)		15 3025-Part 32	600
16	Colour	Hazen	BQL(QL=1)	BQL(QL=0.05)	APHA 23rd Edition (4500 CI B)	-
17	Odour	-	Agreeable	BQL(QL=1)	15 3025 part 4	300
18	Mineral Oil	mg/L		Agreeable	IS 3025 part 5	
19	Ammonia	mg/L	BQL(QL=1) 1.40	BQL(QL=1)	15 3025 part 39	*
20	Taste	myre		0.84	APHA 23rd Edition (4500 NH3 C)	
21	Chioramines as Cl2	mali	Agréeable	Agreeable	15 3025 Part-7	•
22	Cyanide	mg/L	BQL(QL=0.05)	BQL(QL=0.05)	15 3025 (Pt 26)	NS
	Aluminum (Al)	mg/L	BQL(QL=0.025)	BQL(QL=0.025)	GGMPL/SOP/W/43	0.05
	Arsenic (As)	mg/L	BQL(QL=0.02)	BQL(QL=0.02)	APHA 23rd Edition (3120 B)	NS
	Barium as Ba	mg/L	BQL(QL=0.005)	BQL(QL=0.005)	APHA 23rd Edition (3120 B)	0.2
	Boron (B)	mg/L	BQL(QL=0.02)	BQL(QL=0.02)	APHA 23rd Edition (3120 B)	+
	Cadmium (Cd)	mg/L	BQL(QL=0.05)	BQL(QL=0.05)	APHA 23rd Edition (3120 B)	2
	Copper (Cu)	mg/L	BQL(QL=0.002)	BQL(QL=0.002)	APHA 23rd Edition (3120 B)	0.01
	Lead (Pb)	mg/L	BQL(QL=0.02)	BQL(QL=0.02)	APHA 23rd Edition (3120 B)	1.5
	Manganese (Mn)	mg/L	BQL(QL=0,005)	BQL(QL=0.005)	APHA 23rd Edition (3120 B)	0.1
		mg/L *	BQL(QL=0.05)	BQL(QL=0.05)	APHA 23rd Edition (3120 B)	-
	Mercury (Hg)	mg/L	BQL(QL=0.0005)	BQL(QL=0.0005)	APHA 23rd Edition (3120 B)	
	Selenium (Se)	mg/L	BQL(QL=0.005)	BQL(QL=0.005)	APHA 23rd Edition (3120 B)	0.05
	Molybdenum as Mo	mg/L	BQL(QL=0.01)	BQL(QL=0.01)	APHA 23rd Edition (3120 B)	NS
	Total Chromium Cr	mg/L	BQL(QL=0.02)	BQL(QL=0.02)	APHA 23rd Edition (3120 B)	0.05
	Nickel as (Ni)	mg/L	BQL(QL=0.01)	BQL(QL=0.01)	APHA 23rd Edition (3120 B)	NS
	Silver (Ag)	mg/L	BQL(QL=0.02)	BQL(QL=0.02)	APHA 23rd Edition (3120 B)	14 C
37 /	Anionic Detergent	mg/L	BQL(QL=0.05)	BQL(QL=0.05)	IS 13428 (Annex K) : 2018	1



	Total Coliform	MPN/100ml MPN/100ml	Absent Absent	Absent	Absent Absent	15 1622 IS 1622		bsent
74	E.Coli (MPN/100 ml)	MPN/100ml	Abrant				IS:	10500
	Hicrobiologicał	hð\r	BQL(QL=0.25)	8QL(QL=0.25)	BQL(QL=0.25)	USEPA 8141A		190 ents as per
	Alathion	µg/L uož	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	USEPA 8141A		0.3
	Methyl Parathion	µg/L	BQL(QL=20)	BQL(QL=20)	BQL(QL=20)	USEPA 8141A		125
	Phorabe Butachlor	µg/L	BQL(QL=0.1)	BQL(QL=0.1)	BQL(QL=0.1)	USEPA 8141A		2
	Chiorpyriphos	µg/L	BQL(QL=0.25)	BQL(QL=0.25)	BQL(QL=0.25)	USEPA 8141A		30
	Ethoin	µg/L	BQL(QL=0.1)	BQL(QL=0.1)	BQL(QL=0,1)	UEPA 1657A	-	3
-	Monocrotophos	µg/L	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	USEPA 8141A	_	1
-	Endosulfan (Sulphate)	håv	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	USEPA 508	_	
	Endosulfan (Beta)	Hg/L.	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	USEPA 508		D.4
	Endosulfan (alpha)	µg/L	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	USEPA 508	-	
	Delta HCH	µg/L	BQL(QL=0.02)	BQL(QL=0.02)	BQL(QL=0.02)	USEPA 508		0.04
	Beta HCH	µg/L	BQL(QL=0.02)	BQL(QL=0.02)	BQL(QL=0.02)	USEPA 508		0.04
	Alpha HOH	µg/L	BQL(QL=0.005)	BQL(QL=0.005)	BQL(QL=0.005)	USEPA 508		0.01
	Gamma-HCH(Undane)	μg/L	BQL(QL=0.1)	BQL(QL=0.1)	BQL(QL=0.1)	USEPA 508		2
	Aldrin/Dieldrin	hð/r	BQL(QL=0.01)	BQL(QL=0.01)	BQL(QL=0.01)	USEPA 508		0.03
	Atrazine	µg/L	BQL(QL=0.1)	8QL(QL=0.1)	BQL(QL=0.1)	USEPA 8141A		2
	Alachlor	J/24	BQL(QL=0.1)	BQL(QL=0.1)	BQL(QL=0.1)	USEPA 525.2		20
-	Isoproturon	µg/L	BQL(QL=0.1)	BQL(QL=0.1)	BQL(QL=0.1)	USEPA 532		
	p,p-DDD	µg/L	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	USEPA 508		
	o,p-DDD	hðv	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	USEPA 508		
	p,p-DDE	µg/L	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	USEPA 508		1
41.3	o,p-DDE	µg/L.	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	USEPA 508		
41.2	p,p-DDT	µg/L	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	USEPA 508		
41.1	o,p-DDT	sig/L	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	USEPA 508		
41	Pesticides	1		1			Limits as	Per 15:1050
40,4	Chloroform	mg/L	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	APHA 6232	0.2	No relaxatio
40.3	Bromodichloromethane	mg/L	BQL(QL=0.03)	BQL(QL=0.03)	BQL(QL=0.03)	APHA 6232	0.06	No relaxatio
40.2	Dibromochloromethne	mg/L	BQL(QL=0.05)	8QL(QL=0.05)	BQL(QL=0.05)	APHA 6232	0,1	No relaxatio
40,1	Bromoform	mg/L	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	APHA 6232	0.1	No relaxatio
40	Trihalomethanes							
39.7	PC8 1260	µg/L	BQL(QL=0.03)	BQL(QL=0.03)	BQL(QL=0.03)	USEPA 508		
39.6	PCB 1254	µg/L	BQL(QL=0.03)	BQL(QL=0.03)	BQL(QL=0.03)	USEPA 508	-	
39.5	PCB 1248	µg/L	BQL(QL=0.03)	8QL(QL=0.03)	BQL(QL=0.03)	USEPA 508	1 2	
39,4	PCB 1242	µg/L	BQL(QL=0.03)	BQL(QL=0.03)	BQL(QL=0.03)	USEPA 508	1	-
39.3	PCB 1232	Hg/L	BQL(QL=0.03)	BQL(QL=0.03)	BQL(QL=0.03)	LISEPA 508		
39.2	PCB 1221	µg/L	BQL(QL=0.03)	BQL(QL=0.03)	BQL(QL=0.03)	USEPA 505		
39.1	PCB 1016	µg/L	BQL(QL=0.03)	BQL(QL=0.03)	BQL(QL=0.03)	USEPA 508	+	No relaxati
39	Polychlorinated biphenyle	5				A THINKING S	0.0005	*
38,18	Indenol(1,2,3-cd)pyrene	Pg/L	BQL(QL=10)	BQL(QL=10)	BQL(QL=10)	APHA 6440 B		-
38.17	Benzo (g,h,i)perylene	µg/L	BQL(QL=10)	BQL(QL=10)	BQL(QL=10)	APHA 6440 B	1	
38.16	Dibenzo(a,h)anthracene	µg/L	BQL(QL=10)	BQL(QL=10)	BQL(QL=10)	APHA 6440 B		
38.15	Benzo(a)pyrene	µg/L	BQL(QL=10)	BQL(QL=10)	BQL(QL=10)	APHA 6440 B APHA 6440 B		
38.14	Benzo(K) fluoranthene	Hg/L	BQL(QL=10)	BQL(QL=10)	BQL(QL=10)	APHA 6440 B		
00.110	Benzo (b) fluoranthene	Ha/L	BQL(QL=10) BQL(QL=10)	BQL(QL=10) BQL(QL=10)	BQL(QL=10) BQL(QL=10)	APHA 6440 B		-
38.13		L/gu						

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CREE)

BQL =Below Quantification Limit; NA = Not Applicable Analysed By: Shulyer K 13, Shulyal Kishor

Approved By: R Pankil Patel

ardan EnviroLa

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001

Test Report



Sample Number: Name & Address of the Party:

Sample Description:

Sample Collected By:

Sampling and Analysis Protocol:

Location:

VEL/SW/01 M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886

VEL Representative (Mr. Amit Pandey)

IS: 3025, APHA 23rd Edition 2017 & STP

Surface Water Sample

Near Main Gate No. - 01

Format No.: Party Reference No.: **Reporting Date:** Period of Analysis: Receipt Date: Sampling Date: Sampling Quantity: Sampling Type: Preservation:

Report No.:

VEL/SW/2308280001 7.8 F-03 5703009832 Date : 14/06/2023 04/09/2023 28/08/2023 - 04/09/2023 28/08/2023

20/08/2023 5 Ltrs. + 250 ml Grab Ice Box Parameter Required: As Per Work Order

S. No.	Parameters	Test Method	Results	Units
1.	pH (at 25°C)	IS: 3025 (P-11)	7.60	
2.	Colour	IS: 3025 (P-4)	*BLQ(**LOQ-1.0)	Hazen
3.	Turbidity	1S: 3025 (P-10)	*BLQ(**LOQ-1.0)	NTU
4,	Odour	IS: 3025 (P-5)	Unojectionable	
5.	Taste	IS: 3025 (P-8)	Unojectionable	
6.	Total Dissolved Solids	IS: 3025 (P-16)	319.00	mg/L
7.	Calcium as Ca	IS: 3025 (P-40)	68.00	mg/L
8.	Total Alkalinity as CaCO3	IS: 3025 (P-23)	176.00	mg/L
9,	Chloride as Cl	IS: 3025 (P-32)	68.00	mg/L
10.	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	9.32	mg/L
11.	Total Hardness as CaCO3	IS: 3025 (P-21)	208.00	mg/L
12.	Sulphate as SO4	IS: 3025 (P-24)	42.00	mg/L
13.	Fluoride as F	APHA, 4500 F D, SPADNS Method	0.32	mg/L
14.	Nitrate as NO3	IS: 3025 (P-34)	18,50	mg/L
15.	Iron as Fe	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	0.024	mg/L
16.	Aluminium as Al	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.005)	mg/L
17.	Boron as B	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.1)	mg/L
18.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.002)	mg/L
19.	Phenolic Compounds as C6H3OH	IS: 3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L
20.	Mineral Oil	IS: 3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L
21.	Anionic Detergents as MBAS	IS: 3025 (P-68)	*BLQ(**LOQ-0.05)	mg/L



The results reported reside why to the samples tender. In case sample is not drawn the results apply to the sample as received.
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Page No. 1 of 2



Vardan EnviroLab Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr)

ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample	e No.: VEL/SW/01	The Contract of server the server of the	Report No.: VEL/S	W/2308280001
S. No.	Parameters Test Method		Results	Units
22.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.01)	mg/L
23.	Copper as Cu	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.002)	mg/L
24.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.1)	mg/L
25.	Selenium as Se	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.001)	mg/L
26.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.002)	mg/L
27.	Lead as Pb	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.002)	mg/L
28.	Cyanide as CN	IS: 3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L
29.	Arsenic as As	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.005)	mg/L
30,	Mercury as Hg	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.0005)	mg/L
31.	Total Coliform	IS: 15185:2016	Absent	Per 100 ml
32.	E. coli	15: 15185:2016	Absent	Per 100 ml

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



End of Report

Page No. 2 of 2 LENV 02 0



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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001

Test Report



Sample Number: Name & Address of the Party:

VEL/SW/02 M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886

Report No.: Format No.: Party Reference No.: **Reporting Date:** Period of Analysis:

Receipt Date: Sampling Date: Sampling Quantity: Sampling Type: Preservation: **Parameter Required:** VEL/SW/2308280002 7.8 F-03 5703009832 Date : 14/06/2023 04/09/2023 28/08/2023 - 04/09/2023 28/08/2023 20/08/2023

5 Ltrs. + 250 ml

As Per Work Order

Grab

Ice Box

Sample Description: Location: Sample Collected By: Sampling and Analysis Protocol:

Surface Water Sample Near Main Gate No. - 03 VEL Representative (Mr. Amit Pandey) IS: 3025, APHA 23rd Edition 2017 & STP

S. No.	Parameters	Test Method	Results	Units
1.	pH (at 25°C)	IS: 3025 (P-11)	7,14	
2.	Colour	IS: 3025 (P-4)	*BLQ(**LOQ-1.0)	Hazen
3.	Turbidity	IS: 3025 (P-10)	*BLQ(**LOQ-1.0)	NTU
4.	Odour	IS: 3025 (P-5)	Agreeable	
5.	Taste	IS: 3025 (P-8)	Agreeable	**
6.	Total Dissolved Solids	IS: 3025 (P-16)	163	mg/L
7.	Calcium as Ca	IS: 3025 (P-40)	10.00	mg/L
δ.	Total Alkalinity as CaCO3	IS: 3025 (P-23)	75.00	mg/L
9.	Chloride as Cl	IS: 3025 (P-32)	20.00	mg/L
10.	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	8,03	mg/L
11.	Total Hardness as CaCO3	IS: 3025 (P-21)	58.00	mg/L
12.	Sulphate as SO4	IS: 3025 (P-24)	10.00	mg/L
13.	Fluoride as F	APHA, 4500 F D, SPADNS Method	0.21	mg/L
14.	Nitrate as NO ₃	IS: 3025 (P-34)	*BLQ(**LOQ-1.0)	mg/L
15.	Iron as Fe	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	0.032	mg/L
16.	Aluminium as Al	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	0.009	mg/L
17.	Boron as B	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.1)	mg/L
18.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.002)	mg/L
19.	Phenolic Compounds as C ₆ H ₅ OH	IS: 3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L
20.	Mineral Oil	IS: 3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L
21.	Anionic Detergents as MBAS	1S: 3025 (P-68)	*BLQ(**LOQ-0.05)	mg/L

Page No. 1 of 2



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EN (Approved By 902 2ed S



ardan EnviroLa Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample	e No.: VEL/SW/02	A THE REAL PROPERTY AND A DESCRIPTION OF A DESCRIPTIONON OF A DESCRIPTION OF A DESCRIPTIONO	Report No.: VEL/S	Report No.: VEL/SW/230828000		
S. No.	Parameters Test Method		Results	Units		
22.	Zine as Zn	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.01)	mg/L		
23.	Copper as Cu	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.002)	mg/L		
24.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.1)	mg/L		
25.	Selenium as Se	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.001)	mg/L		
26.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.002)	mg/L		
27.	Lead as Pb	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.002)	mg/L		
28.	Cyanide as CN	IS: 3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L		
29.	Arsenic as As	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.005)	mg/L		
30.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.0005)	mg/L		
31.	Total Coliform	IS: 15185:2016	Absent	Per 100 ml		
32.	E. coli	IS: 15185:2016	Absent	Per 100 ml		

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



End of Report

Page No. 2 of 2 END * 60



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			GO Green Mechanisms Pvt Ltd Analysis Results for the Month of April	-23		
Company N	lame		Mahan Energen Limited.		-	
Sample Typ	pe		Waste Water			
Sample Qu	antity		21			
Sample Col	lected By	11000	Laboratory Representative			
Date of Sampling Analysis Period			11.04.2023 17.04.2023 to. 22.04.2023			
	PARAMETER UNIT	UNIT	ETP Outlet	Reference Method	Norms	
1	pH @ 25 °C	(+) (+	7.56	15 3025-Part 11	6.5-9.0	
2	Total Suspended Solids	mg/L	39.00	APHA 23rd Edition (2540 D)	100	
3	BOD at 27°C - 3 Days	mg/L	15	IS 3025-Part 44	30	
4	Chemical Oxygen Demand	mg/L	50.00	APHA 23rd Edition(5220 8)	250	
5	Olf & Grease	mg/L	BQL(QL=2)	IS 3025-Part 39	10	
6	Chloride	mg/L	90.97	IS 3025- Part 32	1000	
7	Total Dissolved Solids	mg/L	665.00	APHA 23rd Edn 2540 C	2100	

BQL =Below Quantification Limit; NA = Not Applicable
Norms as per CTE.
Analysed By:
ShilyeL Kishor
Pankil Patel.

______END......



			Analysis Results for the Month of May	-23	
Company N	ame		Mahan Energen Limited.		. X
Sample Typ	e		Waste Water		
Sample Qua	ntity		21		
Sample Collected By		Laboratory Representative			
Date of Sam	pling		11.05.2023		
Analysis Per	bol		16.05.2023 to. 21.05.2023	No. of the second se	
tell of			Location		
SL No.	PARAMETER	UNIT	ETP Outlet	Reference Method	Norms
1	pH @ 25 ℃		7.12	IS 3025-Part 11	6.5-9.0
2	Total Suspended Solids	mg/L	34.00	APHA 23rd Edition (2540 D)	100
3	BOD at 27°C ~ 3 Days	mg/L	12	15 3025-Part 44	30
4	Chemical Oxygen Demand	mg/L	40.0	APHA 23rd Edition(5220 B)	250
5	Oil & Grease	mg/L	BQL(QL=2)	IS 3025-Part 39	10
6	Chloride	mg/L	85.97	IS 3025- Part 32	1000
7	Total Dissolved Solids	mg/L	648.00	APHA 23rd Edn 2540 C	2100

BQL =Below Quantification Limit; NA = Not Applicable

Norms as per CTE.

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Analysed By: Shi Yu4 k 13 · ShiyaL Kishor

Approved By: & Pankil PateL



....END ...

			GO Green Mechanisms Pvt Ltd Analysis Results for the Month of June -	2023	
Company N	ame		Mahan Energen Limited.		
Sample Typ	e		Waste Water		
Sample Qua	intity		21.		
Sample Collected By		Laboratory Representative			
Date of San	spling		14.06.2023		
Analysis Per	lied		21.06.2023 To 26.06.2023		
		PARAMETER UNIT ETP Outlet	Location		
SL No.	PARAMETER		ETP Outlet	Reference Method	Norms
1	pH @ 25 ℃	-	6.92	15 3025-Part 11	6.5-9.0
2	Total Suspended Solids	mg/L	39.00	APHA 23rd Edition (2540 D)	100
3	BOD at 27°C – 3 Days	mg/L	15	15 3025-Part 44	30
.4	Chemical Oxygen Demand	mg/L	50.00	APHA 23rd Edition(\$220 8)	250
5	Oil & Grease	mg/L	BQL(QL=2)	15 3025-Part 39	10
6	Chloride	mg/L	91,47	15 3025- Part 32	1000
7	Total Dissolved Solids	mg/L	660.00	APHA 23rd Edn 2540 C	2100

BQL =Below Quantification Limit; NA = Not Applicable

Norms as per CTE.

Analysed By: Shituk B. ShiyaL Kishor

Approved By: Pankil PateL



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number: Name & Address of the Party:

VEL/WW/02 M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886

Report No.: Format No.: Party Reference No.: Callout No.: **Reporting Date:** Period of Analysis:

Receipt Date: Sampling Date: Sampling Quantity: Sampling Type: Preservation: Parameter Required:

VEL/WW/2307260002 7.8 F-03 5703009832 Date : 14/06/2023 31/07/2023 26/07/2023 - 31/07/2023 26/07/2023 18/07/2023

Sample Description: Sample Location: Sample Collected By: Sampling and Analysis Protocol:

Waste Water Sample ETP Outlet (ETP Plant) VEL Representative (Mr. Amit Pandey) IS: 3025 & STP

2 Ltrs. Grab Ice Box

As Per Work Order

		What Cale Ve		General Standards As Per The Environment (Protection) Rules, 1986		
Parameters	Test Method	Results	Units	Inland Surface Water (a)	Public Sewers (b)	Land for Irrigation (c)
pH (at 25°C)	IS: 3025 (P-11)	6.70		5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
Total Suspended Solids	1S: 3025 (P-17)	43.0	mg/L	100	600	200
B.O.D. (3 Days @27°C)	IS: 3025 (P-44)	13.00	mg/L	30	350	100
Chemical Oxygen Demand (C.O.D.)	IS: 3025 (P-58)	52.11	mg/L	250		**
Oil & Grease	Clause No. 5 of IS: 3025 (P-39)	0.38	mg/L	10	20	10
Total Dissolved Solids	IS: 3025 (P-16)	128.00	mg/L	-		222
Chloride (as Cl)	IS: 3025(P-23)	32.68	mg/L	-	-	
	pH (at 25°C) Total Suspended Solids B.O.D. (3 Days @27°C) Chemical Oxygen Demand (C.O.D.) Oil & Grease Total Dissolved Solids	pH (at 25°C)IS: 3025 (P-11)Total Suspended SolidsIS: 3025 (P-17)B.O.D. (3 Days @27°C)IS: 3025 (P-44)Chemical Oxygen Demand (C.O.D.)IS: 3025 (P-58)Oil & GreaseClause No. 5 of IS: 3025 (P-39)Total Dissolved SolidsIS: 3025 (P-16)	pH (at 25°C) IS: 3025 (P-11) 6.70 Total Suspended Solids IS: 3025 (P-17) 43.0 B.O.D. (3 Days @27°C) IS: 3025 (P-44) 13.00 Chemical Oxygen Demand (C.O.D.) IS: 3025 (P-58) 52.11 Oil & Grease Clause No. 5 of IS: 3025 (P-39) 0.38 Total Dissolved Solids IS: 3025 (P-16) 128.00	pH (at 25°C) IS: 3025 (P-11) 6.70 - Total Suspended Solids IS: 3025 (P-17) 43.0 mg/L B.O.D. (3 Days @27°C) IS: 3025 (P-44) 13.00 mg/L Chemical Oxygen Demand (C.O.D.) IS: 3025 (P-58) 52.11 mg/L Oil & Grease Clause No. 5 of IS: 3025 (P-39) 0.38 mg/L Total Dissolved Solids IS: 3025 (P-23) mg/L mg/L	Parameters Test Method Results Units Environmen Inland Surface Water (a) pH (at 25°C) 1S: 3025 (P-11) 6.70 5.5 to 9.0 Total Suspended Solids 1S: 3025 (P-17) 43.0 mg/L 100 B.O.D. (3 Days @27°C) 1S: 3025 (P-44) 13.00 mg/L 30 Chemical Oxygen Demand (C.O.D.) 1S: 3025 (P-58) 52.11 mg/L 250 Oil & Grease Clause No. 5 of 1S: 3025 (P-39) 0.38 mg/L 10 Total Dissolved Solids 1S: 3025 (P-16) 128.00 mg/L	Parameters Test Method Results Units Environment (Protection Surface Water (a) Public Severs (b) pH (at 25°C) 1S: 3025 (P-11) 6.70 5.5 to 9.0 5.5 to 9.0 Total Suspended Solids 1S: 3025 (P-17) 43.0 mg/L 100 600 B.O.D. (3 Days @27°C) 1S: 3025 (P-44) 13.00 mg/L 30 350 Chemical Oxygen Demand (C.O.D.) 1S: 3025 (P-58) 52.11 mg/L 250 Oil & Grease Clause No. 5 of IS: 3025 (P-39) 0.38 mg/L 10 20 Total Dissolved Solids IS: 3025 (P-23) mg/L

Note:- GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS PART-A : EFFLUENTS As Per The Environment (Protection) Rules, 1986 [SCHEDULE - VI] (See Rule 3A)



End of Report

Page No. 1 of 1



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Sample Collected By:

ardan EnviroLa

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001





VEL/WW/02 Sample Number: Report No.: VEL/WW/2308280010 Name & Address of the Party: M/s Mahan Energen Limited Format No.: 7.8 F-03 Village: Bandhora, Post: Karsualal, Party Reference No.: 5703009832 Date : 14/06/2023 Tehsil: Mada, Distt.: Singrauli, Callout No.: Madhya Pradesh - 486886 **Reporting Date:** 31/08/2023 28/08/2023 - 31/08/2023 Period of Analysis: **Receipt Date:** 28/08/2023 19/08/2023 Sampling Date: Sample Description: Waste Water Sample Sampling Quantity: 2 Ltrs. Sample Location: ETP Outlet (ETP Plant) Sampling Type:

VEL Representative (Mr. Amit Pandey)

Sampling and Analysis Protocol: IS: 3025 & STP Parameter Required:

Grab Ice Box As Per Work Order

Preservation:

	A STATE OF STATE OF STATE	i territari		General Standards As Per The Environment (Protection) Rules, 1986		
Parameters	Test Method	Results	Units	Inland Surface Water (a)	Public Sewers (b) 5.5 to 9.0 600	Land for Irrigation (c)
pH (at 25°C)	IS: 3025 (P-11)	6,30	-	5.5 to 9.0		5.5 to 9.0
Total Suspended Solids	IS: 3025 (P-17)	46.00	mg/L	100	600	200
B.O.D. (3 Days @27°C)	IS: 3025 (P-44)	10.22	mg/L	30	350	100
Chemical Oxygen Demand (C.O.D.)	IS: 3025 (P-58)	55.74	mg/L	250	-	
Oil & Grease	Clause No. 5 of 15: 3025 (P-39)	0.48	mg/L	10	20	10
Total Dissolved Solids	IS: 3025 (P-16)	142.00	mg/L			
Chloride (as Cl)	IS: 3025(P-23)	34.87	mg/L		-	-
	pH (at 25°C) Total Suspended Solids B.O.D. (3 Days @27°C) Chemical Oxygen Demand (C.O.D.) Oil & Grease Total Dissolved Solids	pH (at 25°C) IS: 3025 (P-11) Total Suspended Solids IS: 3025 (P-17) B.O.D. (3 Days @27°C) IS: 3025 (P-44) Chemical Oxygen Demand IS: 3025 (P-58) (C.O.D.) Oil & Grease Clause No. 5 of IS: 3025 (P-39) Total Dissolved Solids IS: 3025 (P-16)	pH (at 25°C) IS: 3025 (P-11) 6.30 Total Suspended Solids IS: 3025 (P-17) 46.00 B.O.D. (3 Days @27°C) IS: 3025 (P-44) 10.22 Chemical Oxygen Demand (C.O.D.) IS: 3025 (P-58) 55.74 Oil & Grease Clause No. 5 of IS: 3025 (P-39) 0.48 Total Dissolved Solids IS: 3025 (P-16) 142.00	pH (at 25°C) IS: 3025 (P-11) 6.30 Total Suspended Solids IS: 3025 (P-17) 46.00 mg/L B.O.D. (3 Days @27°C) IS: 3025 (P-44) 10.22 mg/L Chemical Oxygen Demand (C.O.D.) IS: 3025 (P-58) 55.74 mg/L Oil & Grease Clause No. 5 of IS: 3025 (P-39) 0.48 mg/L Total Dissolved Solids IS: 3025 (P-16) 142.00 mg/L	Parameters Test Method Results Linits Environmen Inland Surface Water (a) pH (at 25°C) IS: 3025 (P-11) 6.30 5.5 to 9.0 Total Suspended Solids IS: 3025 (P-17) 46.00 mg/L 100 B.O.D. (3 Days @27°C) IS: 3025 (P-44) 10.22 mg/L 30 Chemical Oxygen Demand (C.O.D.) IS: 3025 (P-58) 55.74 mg/L 250 Oil & Grease Clause No. 5 of IS: 3025 (P-39) 0.48 mg/L 10 Total Dissolved Solids IS: 3025 (P-16) 142.00 mg/L	Parameters Test Method Results Units Environment (Protection Surface Water (a) Public Sewers (b) pH (at 25°C) IS: 3025 (P-11) 6.30 5.5 to 9.0 5.5 to 9.0 Total Suspended Solids IS: 3025 (P-17) 46.00 mg/L 100 600 B.O.D. (3 Days @27°C) IS: 3025 (P-44) 10.22 mg/L 30 350 Chemical Oxygen Demand (C.O.D.) IS: 3025 (P-58) 55.74 mg/L 250 Oil & Grease Clause No. 5 of IS: 3025 (P-39) 0.48 mg/L 10 20 Total Dissolved Solids IS: 3025 (P-16) 142.00 mg/L

Note:- GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS PART-A : EFFLUENTS As Per The Environment (Protection) Rules, 1986 [SCHEDULE - VI] (See Rule 3A)

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Vardan EnviroLa Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr)

ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number:	VEL/WW/03	Report No.:	VEL/WW/2309180007
Name & Address of the Party:	M/s Mahan Energen Limited	Format No.:	7.8 F-03
	Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli,	Party Reference No.: Callout No.:	5703009832 Date : 14/06/2023
	Madhya Pradesh - 486886	Reporting Date:	21/09/2023
		Period of Analysis:	18/09/2023 - 21/09/2023
		Receipt Date:	18/09/2023
		Sampling Date:	16/09/2023
Sample Description:	Waste Water Sample	Sampling Quantity:	2 Ltrs.
Sample Location:	ETP Outlet (ETP Plant)	Sampling Type:	Grab
Sample Collected By:	VEL Representative (Mr. Amit Pandey)	Preservation:	Ice Box
Sampling and Analysis Protocol:	IS: 3025 & STP	Parameter Required:	As Per Work Order

. 1	1 <u>.</u>	and the growth second		125	General Standards As Per The Environment (Protection) Rules, 1986			
S. No.	Parameters	Test Method	Results	Units	Inland Surface Water (a)	Public Sewers (b)	Land for Irrigation (c)	
1,	pH (at 25°C)	IS: 3025 (P-11)	6.3		5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	
2.	Total Suspended Solids	IS: 3025 (P-17)	49.00	mg/L	100	600	200	
3.	B.O.D. (3 Days @27°C)	IS: 3025 (P-44)	8.9	mg/L	30	350	100	
4.	Chemical Oxygen Demand (C.O.D.)	1S: 3025 (P-58)	48.20	mg/L	250			
5.	Oil & Grease	Clause No. 5 of IS: 3025 (P-39)	0.41	mg/L	10	20	10	
6.	Total Dissolved Solids	IS: 3025 (P-16)	174.00	mg/L				
7.	Chloride (as Cl)	IS: 3025(P-23)	36.51	mg/L	-			

Note:- GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS PART-A : EFFLUENTS As Per The Environment (Protection) Rules, 1986 [SCHEDULE - VI] (See Rule 3A)

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			GO Green Mechanisms Pvt Ltd		
			Analysis Results for the Month of Apri	1-23	
Company N	Name		Mahan Energen Limited.		
Sample Typ	pe		Waste Water		
Sample Col	llected By		Laboratory Representative		
Sample Qu	antity		2L		
Data of Sampling		11.04.2023			
Analysis Pe	riod		17.04.2023 to. 22.04.2023		
		10000	Location		
SL. No.	PARAMETER	TER UNIT	STP Outlet	Reference Method	Norms
1	pH @ 25 ℃		7.63	IS 3025-Part 11	6.5-9.0
2	Total Suspended Solids	mg/L	29.00	APHA 23rd Edition (2540 D)	100
3	BOD at 27°C - 3 Days	mg/L	17	15 3025-Part 44	30
4	Chemical Oxygen Demand	mg/L	60.00	APHA 23rd Edition(5220 B)	250
5	Oil & Grease	mg/L	BQL(QL=2)	15 3025-Part 39	10
6	Faecal Coliform	MPN/100ML	Absent	15 1622	<1000

BQL =Below Quantification Limit; NA = Not Applicable

Norms as per CTE.

Analysed By:

Shitu K.B.

Approved By: Pankil Patel



...END

			GO Green Mechanisms Pvt Ltd			
			Analysis Results for the Month of May	-23		
Company N	lame		Mahan Energen Limited.	and the second se		
Sample Typ	2		Waste Water		0	
Sample Col	lected By		Laboratory Representative			
Sample Quantity		2L				
Date of San	npling		11.05.2023			
Analysis Period			16.05.2023 to. 21.05.2023			
			Location			
SL No.	PARAMETER	UNIT	STP Outlet	Reference Method	Norms	
1	pH @ 25 ℃		7.21	15 3025-Part 11	6.5-9.0	
2	Total Suspended Solids	mg/L	24.00	APHA 23rd Edition (2540 D)	100	
3	BOD at 27°C - 3 Days	mg/L	14	15 3025-Part 44	30	
4	Chemical Oxygen Demand	mg/L	50.00	APHA 23rd Edition(5220 B)	250	
5	Oli & Grease	mg/L	BQL(QL=2)	15 3025-Part 39	10	
6	Faecal Coliform	MPN/100ML	Absent	15 1622	<1000	

Approved By:

Pankil Patel

BQL =Below Quantification Limit; NA = Not Applicable

Norms as per CTE.

Analysed By: Shityer K.B.



...END ...

			GO Green Mechanisms Pvt Ltd Analysis Results for the Month of June -	2023	
Company N	tame		Mahan Energen Limited.		
Sample Typ	90		Waste Water		
Sample Col	lected By		Laboratory Representative		
Sample Quantity			21.		
Date of San	npling		14.05.2023		
Analysis Po	riod		21.06.2023 To 26.06.2023		
			Location		
SL. No.	PARAMETER	UNIT	STP Outlet	Reference Method	Norms
1	pH @ 25 ℃	-	6.84	IS 3025-Part 11	6.5-9.0
2	Total Suspended Solids	mg/L	28.00	APHA 23rd Edition (2540 D)	100
3	BOD at 27°C – 3 Days	mg/L	15.60	15 3025-Part 44	30
4	Chemical Oxygen Demand	mg/L	60.00	APHA 23rd Edition(5220 B)	250
5	Oil & Grease	ng/L	BQL(QL=2)	15 3025-Part 39	10
6	Faecal Coliform	MPN/100ML	Absent	15 1622	<1000

BQL =Below Quantification Limit; NA = Not Applicable

Norms as per CTE.

Analysed By: Shifulk B. Shiyal Kishor

Approved By: Pankil Patel



...END ...

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number: Name & Address of the Party:

Sample Description:

Sample Collected By:

Sampling and Analysis Protocol:

Sample Location:

VEL/WW/01 M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886

VEL Representative (Mr. Amit Pandey)

Waste Water Sample

IS: 3025 & STP

STP Outlet (STP Plant)

Report No .: Format No.: Party Reference No.: Callout No.: **Reporting Date:** Period of Analysis:

Receipt Date: Sampling Date: Sampling Quantity: Sampling Type: Preservation:

VEL/WW/2307260001 7.8 F-03 5703009832 Date : 14/06/2023 31/07/2023 26/07/2023 - 31/07/2023 26/07/2023 18/07/2023 2 Ltrs. Grab Ice Box

Parameter Required: As Per Work Order

	Vaccany Ed)/inotata/ il rino Late/Invitatr'i nero	Test Method	Concernant	Units	General Standards As Per The Environment (Protection) Rules, 1986		
S. No.	Parameters		Results		Inland Surface Water (a)	Public Sewers (b)	Land for Irrigation (c)
L.	pH (at 25°C)	IS: 3025 (P-11)	7.54		5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
2.	Total Suspended Solids	1S: 3025 (P-17)	35.00	mg/L	100	600	200
3.	B.O.D. (3 Days @27°C)	IS: 3025 (P-44)	15.08	mg/L	30	350	100
4.	Chemical Oxygen Demand (C.O.D.)	IS: 3025 (P-58)	58.32	mg/L	250		
5.	Oil & Grease	Clause No. 5 of IS: 3025 (P-39)	0.56	mg/L	10	20	10
6.	Faecal Coliform	IS: 1622:1981	<2	MPN/100 ml	-	-	

Note:- GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS PART-A : EFFLUENTS As Per The Environment (Protection) Rules, 1986 [SCHEDULE - VI] (See Rule 3A)



End of Report

Page No. 1 of 1

SATYA DEV Dy. Technical Manager-Micro

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Test Report

Sample Number: Name & Address of the Party:

Sample Description:

Sample Collected By:

Sampling and Analysis Protocol:

Sample Location:

VEL/WW/01 M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886

Waste Water Sample STP Outlet (STP Plant) VEL Representative (Mr. Amit Pandey) IS: 3025 & STP

Report No.: Format No.: Party Reference No.: Callout No.: **Reporting Date:** Period of Analysis: **Receipt Date:** Sampling Date: Sampling Quantity: Sampling Type: Preservation:

Parameter Required:

VEL/WW/2308280009 7.8 F-03 5703009832 Date : 14/06/2023 31/08/2023 28/08/2023 - 31/08/2023 28/08/2023 19/08/2023 2 Ltrs. Grab Ice Box As Per Work Order

danti	Parameters	Test Method	Results		General Standards As Per The Environment (Protection) Rules, 1986		
S. No.				Units	Inland Surface Water (a)	Public Sewers (b)	Land for Irrigation (c)
1.	pH (at 25°C)	1S: 3025 (P-11)	7.74		5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
2.	Total Suspended Solids	IS: 3025 (P-17)	42.00	mg/L	100	600	200
3.	B.O.D. (3 Days @27°C)	IS: 3025 (P-44)	17.98	mg/L	30	350	100
4.	Chemical Oxygen Demand (C.O.D.)	Oxygen Demand IS: 3025 (P-58)		mg/L	250	-	-
5.	Oil & Grease	Clause No. 5 of IS: 3025 (P-39)	0.64	mg/L	10	20	10
6,	Faecal Coliform	IS: 1622:1981	<2	MPN/100 ml			
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Note:- GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS PART-A : EFFLUENTS As Per The Environment (Protection) Rules, 1986 [SCHEDULE - VI] (See Rule 3A)



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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number:	
Name & Address	of the Party:

Sample Description:

Sample Collected By:

Sample Location:

VEL/WW/01 M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886

Waste Water Sample STP Outlet (STP Plant) VEL Representative (Mr. Amit Pandey) IS: 3025 & STP Sampling and Analysis Protocol:

Report No.: Format No.: Party Reference No.: Callout No.: **Reporting Date:** Period of Analysis:

Receipt Date: Sampling Date: Sampling Quantity: Sampling Type: Preservation: **Parameter Required:**

VEL/WW/2309180005 7.8 F-03 5703009832 Date : 14/06/2023 21/09/2023 18/09/2023 - 21/09/2023

18/09/2023 16/09/2023 2 Ltrs. Grab Ice Box

As Per Work Order

		vinoLabi	Sedito Terrero	General Standards As Per The Environment (Protection) Rules, 1986		
Parameters Environment	Test Method	Results	Units	Inland Surface Water (a)	Public Sewers (b)	Land for Irrigation (c)
pH (at 25°C)	IS: 3025 (P-11)	7.57		5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
Total Suspended Solids	IS: 3025 (P-17)	56.00	mg/L	100	600	200
B.O.D. (3 Days @27°C)	IS: 3025 (P-44)	18.46	mg/L	30	350	100
Chemical Oxygen Demand (C.O.D.)	1S: 3025 (P-58)	62.52	mg/L	250	-	-
Oil & Grease	Clause No. 5 of IS: 3025 (P-39)	0.58	mg/L	10	20	10
Faecal Coliform	IS: 1622:1981	<2	MPN/100 ml	-	-	
	Parameters pH (at 25°C) Total Suspended Solids B.O.D. (3 Days @27°C) Chemical Oxygen Demand (C.O.D.) Oil & Grease	ParametersTest MethodpH (at 25°C)IS: 3025 (P-11)Total Suspended SolidsIS: 3025 (P-17)B.O.D. (3 Days @27°C)IS: 3025 (P-44)Chemical Oxygen Demand (C.O.D.)IS: 3025 (P-58)Oil & GreaseClause No. 5 of IS: 3025 (P-39)	Parameters Test Method Results pH (at 25°C) IS: 3025 (P-11) 7.57 Total Suspended Solids IS: 3025 (P-17) 56.00 B.O.D. (3 Days @27°C) IS: 3025 (P-44) 18.46 Chemical Oxygen Demand (C.O.D.) IS: 3025 (P-58) 62.52 Oil & Grease Clause No. 5 of IS: 3025 (P-39) 0.58	Parameters Test Method Results Units pH (at 25°C) IS: 3025 (P-11) 7.57 Total Suspended Solids IS: 3025 (P-17) 56.00 mg/L B.O.D. (3 Days @27°C) IS: 3025 (P-44) 18.46 mg/L Chemical Oxygen Demand (C.O.D.) IS: 3025 (P-58) 62.52 mg/L Oil & Grease Clause No. 5 of IS: 3025 (P-39) 0.58 mg/L	Parameters Test Method Results Units Environment Inland Surface Water (a) pH (at 25°C) 1S: 3025 (P-11) 7.57 5.5 to 9.0 Total Suspended Solids 1S: 3025 (P-17) 56.00 mg/L 100 B.O.D. (3 Days @27°C) 1S: 3025 (P-44) 18.46 mg/L 30 Chemical Oxygen Demand (C.O.D.) 1S: 3025 (P-58) 62.52 mg/L 250 Oil & Grease Clause No. 5 of 1S: 3025 (P-39) 0.58 mg/L 10	Parameters Test Method Results Units Environment (Protection Surface Water (a) pH (at 25°C) 1S: 3025 (P-11) 7.57 5.5 to 9.0 5.5 to 9.0 Total Suspended Solids 1S: 3025 (P-17) 56.00 mg/L 100 600 B.O.D. (3 Days @27°C) 1S: 3025 (P-44) 18.46 mg/L 30 350 Chemical Oxygen Demand (C.O.D.) 1S: 3025 (P-58) 62.52 mg/L 250 Oil & Grease Clause No. 5 of 1S: 3025 (P-39) 0.58 mg/L 10 20

Note:- GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS PART-A : EFFLUENTS As Per The Environment (Protection) Rules, 1986 [SCHEDULE - VI] (See Rule 3A)



End of Report





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GO Green Mechanisms Pvt Ltd Ambient Noise Monitoring For The Month of April-23 On Site 24 Hourly Monitoring Results									
Company M	Name	Mahan Energen Limite	d.						
Sample Collected By Sample Type		Laboratory Representa	stive				_		
		Ambient Noise Monitor	ring						
Sr. No.	Sampling Date	Location		Day Time in dB (A) leq (6:00 Am to 10:00 Pm)	Norms (Day Time)	Night Time in dB (A) leg (10:00 Pmto 06:00 Am)	Norms (Night Time)		
			Leq :	66.3	75.0	53.4			
1	04.04.2023	Nr. Admin Building	Max :	68.5		56.6	70.0		
			Min :	60.1		47.2			
			Leq :	63.1		55.3			
2	05.04.2023	Nr. Gate No. 1	Max :	71.4	75.0	57.4	70.0		
			Min :	59.4		51.9			
			Leq :	65.6		61.8			
3	06.04.2023	Nr. Gate No. 2	Max :	68.0	75.0	63.7	70.0		
		Min : 62	62		58.6				
			Leq :	54.6		47.1			
4	07.04.2023	Nr. Gate No. 3	Max :	56.7	75.0	50.4	70.0		
			Min :	49.3		40.3			

Analyesd By	Approved By
Shiput B	æ.
Shiyal Kishor	Pankil Patel





GO Green Mechanisms Pvt Ltd Ambient Noise Monitoring For The Month of April-23 On Site 24 Hourly Monitoring Results									
Company N	lame	Mahan Energen Limite	d.						
Sample Collected By		Laboratory Representa	tive				1100		
Sample Typ	pe	Ambient Noise Monitor	ing						
Sr. No.	Sampling Date	Location		Day Time in dB (A) leq (6:00 Am to 10:00 Pm)	Norms (Day Time)	Night Time in dB (A) leq (10:00 Pmto 06:00 Am)	Norms (Night Time)		
			Leq :	63.5	75.0	54.0			
1	05.05.2023	Nr. Admin Building	Max :	69.3		57.3	70.0		
			Min :	53.7		46.5			
			Leq :	61.3		54.7			
2	08.05.2023	Nr. Gate No. 1	Max :	69.2	75.0	58.2	70.0		
			Min :	54.3		50.8			
			Loq :	60.5		56.1			
3	17.05.2023	Nr. Gate No. 2	Max :	67.4	75.0	59.6	70.0		
			Min :	54.2		53.8			
			Leq :	56.6		57.0			
4	24.05.2023	Nr. Gate No. 3	Max :	59.3	75.0	61.4	70.0		
			Min :	53.1		51.9			

NORMS AS PER NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 (Industrial Area)
Analyesd By
Approved By
Approv



......END.....

			Noise Mon	en Mechanisms Pvt Lt itoring For The Mont Hourly Monitoring Res	h of June-23		
Company N	Name	Mahan Energen Limite	d.				
Sample Co	llected By	Laboratory Representa	tive				
Sample Ty	ре	Ambient Noise Monitor	ing				
Sr. No.	Sampling Date	Location		Day Time in dB (A) leq (6:00 Am to 10:00 Pm)	Norms (Day Time)	Night Time in dB (A) leq (10:00 Pmto 06:00 Am)	Norms (Night Time)
			Leq :	57.4		50.5	70.0
1	16.06.2023	Nr. Admin Building	Max :	60.2	75.0	57.1	
			Min :	52.9		43.1	
			Leq :	58.8		52.8	
2	17.06.2023	Nr. Gate No. 1	Max :	67.5	75.0	56.3	70.0
			Min :	52.3		47.6	
			Leq :	57.3		51.4	
3	21.06.2023	Nr. Gate No. 2	Max :	65.2	75.0	54.8	70.0
			Min :	52.8		46.3	
			Leq :	57.6		49.8	
4	22.06.2023	Nr. Gate No. 3	Max :	59.9	75.0	53.5	70.0
			Min :	53.6		43.2	

Analyesd By	Approved By	
Shidulk-B.	ď	
Shiyal Kishor	Pankil Patel	



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number: Name & Address of the Party:

VEL/N/01 M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal,

Madhya Pradesh - 486886

Tehsil: Mada, Distt.: Singrauli,

Report No .: Format No.: Party Reference No.:

Reporting Date: Period of Analysis: Receipt Date: Page No.:

VEL/N/2307260026 7.8 F-03 5703009832 Date : 14/06/2023 31/07/2023 26/07/2023 - 31/07/2023 26/07/2023 1 of 1

Sample Description:

AMBIENT NOISE LEVEL MONITORING

General Information Sampling Location Sample Collected By Sampling Instrument Used Instrument Code Instrument Calibration Status Meteorological Condition During Monitoring Date of Monitoring **Time of Monitoring** Ambient Temperature (°C) Surrounding Activity Scope of Monitoring Sampling & Analysis Protocol **Sampling Duration Parameter Required**

:	Near Gate No - 1
:	VEL Representative (Mr. Amit Pandey)
:	Sound Level Meter
;	VEL/INS/ENV/SLM/10
:	Calibrated
;	Clear Sky
:	18/07/2023 To 19/07/2023
:	06:00 A.M. To 06:00 A.M.
;	Min.23°C, Max.31°C
:	Human & Vehicular Activities
:	Regulatory Requirement
÷	IS: 9989
:	24 Hours

: As Per Work Order

S. No.	Test Parameters	Test Method	the Environment of Test Results and work on Environment			
			Day Time (06:00 A.M. To 10:00 P.M.)	Night Time (10:00 P.M. To 06:00 A.M.)	Units	
1.	L _{Max.}	IS: 9989	71.2	67.3	dB (A)	
2.	L _{Min}	IS: 9989	54.2	49.8	dB (A)	
3.	L _{Eq.}	IS: 9989	68.64	61.87	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.

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Test Report

Sample Number: Name & Address of the Party:

VEL/N/02 M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886

Report No.: Format No.: Party Reference No.:

Reporting Date: Period of Analysis: **Receipt Date:** Page No.:

VEL/N/2307260027 7.8 F-03 5703009832 Date : 14/06/2023 31/07/2023 26/07/2023 - 31/07/2023 26/07/2023 1 of 1

Sample Description:

AMBIENT NOISE LEVEL MONITORING

General Information Sampling Location Sample Collected By Sampling Instrument Used Instrument Code Instrument Calibration Status Meteorological Condition During Monitoring Date of Monitoring Time of Monitoring Ambient Temperature (°C) Surrounding Activity Scope of Monitoring Sampling & Analysis Protocol **Sampling Duration Parameter Required**

Near Admin Building 5 VEL Representative (Mr. Amit Pandey) 1 Sound Level Meter VEL/INS/ENV/SLM/10 ÷ Calibrated Clear Sky 20/07/2023 To 21/07/2023 06:00 A.M. To 06:00 A.M. Min.26°C, Max.33°C Human & Vehicular Activities **Regulatory Requirement** IS: 9989 : 24 Hours

As Per Work Order :

S. No.	Test Parameters	Cho finiti olab.Ve	Test Results			
		Test Method	Day Time (06:00 A.M. To 10:00 P.M.)	Night Time (10:00 P.M. To 06:00 A.M.)	Units	
1.	L _{Max.}	IS: 9989	73.4	64.2	dB (A)	
2.	L _{Min}	IS: 9989	55.6	52.3	dB (A)	
3.	L _{Eq.}	IS: 9989	62.58	55.28	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.

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Sample Number: Name & Address of the Party:

VEL/N/03 M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886

Report No.: Format No.: Party Reference No.:

Reporting Date: Period of Analysis: Receipt Date: Page No.:

VEL/N/2307260028 7.8 F-03 5703009832 Date : 14/06/2023 31/07/2023 26/07/2023 - 31/07/2023 26/07/2023 1 of 1

Sample Description:

AMBIENT NOISE LEVEL MONITORING

General Information Sampling Location Sample Collected By Sampling Instrument Used Instrument Code Instrument Calibration Status Meteorological Condition During Monitoring **Date of Monitoring** Time of Monitoring Ambient Temperature (°C) Surrounding Activity Scope of Monitoring Sampling & Analysis Protocol Sampling Duration Parameter Required

Near Gate No-2 VEL Representative (Mr. Amit Pandey) Sound Level Meter VEL/INS/ENV/SLM/10 Calibrated Clear Sky 21/07/2023 To 22/07/2023 06:00 A.M. To 06:00 A.M. Min.25°C, Max.29°C . Human & Vehicular Activities **Regulatory Requirement** IS: 9989 24 Hours :

As Per Work Order

S. No.	Test Parameters	Test Method	Test Results		
			Day Time (06:00 A.M. To 10:00 P.M.)	Night Time (10:00 P.M. To 06:00 A.M.)	Units
1.	L _{Max.}	IS: 9989	68.1	60.5	dB (A)
2.	L _{Min}	IS: 9989	51.0	47.3	dB (A)
3.	L _{Eq.}	IS: 9989	64.26	59.36	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.



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Sample Number: Name & Address of the Party:

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

Report No .: Format No.: Party Reference No.:

Reporting Date: Period of Analysis: Receipt Date: Page No.:

VEL/N/2307260029 7.8 F-03 5703009832 Date : 14/06/2023 31/07/2023 26/07/2023 - 31/07/2023 26/07/2023 1 of 1

Sample Description:

AMBIENT NOISE LEVEL MONITORING

General Information Sampling Location Sample Collected By Sampling Instrument Used Instrument Code Instrument Calibration Status Meteorological Condition During Monitoring **Date of Monitoring** Time of Monitoring Ambient Temperature (°C) Surrounding Activity Scope of Monitoring Sampling & Analysis Protocol **Sampling Duration Parameter Required**

- Near Gate No-3 2 VEL Representative (Mr. Amit Pandey) Sound Level Meter VEL/INS/ENV/SLM/10 Calibrated Clear Sky 22/07/2023 To 23/07/2023 06:00 A.M. To 06:00 A.M. Min.25°C, Max.30°C Human & Vehicular Activities **Regulatory Requirement** IS: 9989
- 24 Hours
- As Per Work Order 1

S. No.	Test Parameters	Test Method	Test Results		
			Day Time (06:00 A.M. To 10:00 P.M.)	Night Time (10:00 P.M. To 06:00 A.M.)	Units
1.	L _{Max}	IS: 9989	66.3	59.43	dB (A)
2.	L _{Min}	IS: 9989	48.5	41.3	dB (A)
3.	L _{Eq.}	IS: 9989	58.01	52.36	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.





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Sample Number: Name & Address of the Party:

VEL/N/01 M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886

Report No.: Format No.: Party Reference No.:

Reporting Date: Period of Analysis: Receipt Date: Page No.:

VEL/N/2308160025 7.8 F-03 5703009832 Date : 14/06/2023 19/08/2023 16/08/2023 - 19/08/2023 16/08/2023 1 of 1

Sample Description:

AMBIENT NOISE LEVEL MONITORING

General Information Sampling Location Sample Collected By Sampling Instrument Used Instrument Code Instrument Calibration Status Meteorological Condition During Monitoring Date of Monitoring **Time of Monitoring** Ambient Temperature (°C) Surrounding Activity Scope of Monitoring Sampling & Analysis Protocol Sampling Duration **Parameter Required**

- Near Gate No. 2 VEL Representative (Mr. Amit Pandey) Sound Level Meter VEL/INS/ENV/SLM/10 Calibrated 2 Clear Sky 07/08/2023 To 08/08/2023 06:00 A.M. To 06:00 A.M. Min.24°C, Max.28°C Human & Vehicular Activities 2 **Regulatory Requirement** : IS: 9989 2 24 Hours
- As Per Work Order

S. No.	Test Parameters	Test Method	Test H		
			Day Time (06:00 A.M. To 10:00 P.M.)	Night Time (10:00 P.M. To 06:00 A.M.)	Units
1.	LMm	IS: 9989	72.7	67.1	dB (A)
2.	L _{Min}	IS: 9989	56.8	50.6	dB (A)
3.	L _{Eq.}	IS: 9989	61.22	53.77	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.

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Sample Number: Name & Address of the Party:

VEL/N/02 M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886

Report No.: Format No.: Party Reference No.:

Reporting Date: Period of Analysis: Receipt Date: Page No.:

VEL/N/2308160026 7.8 F-03 5703009832 Date : 14/06/2023 19/08/2023 16/08/2023 - 19/08/2023 16/08/2023 1 of 1

Sample Description:

AMBIENT NOISE LEVEL MONITORING

General Information Sampling Location Sample Collected By Sampling Instrument Used Instrument Code Instrument Calibration Status Meteorological Condition During Monitoring **Date of Monitoring** Time of Monitoring Ambient Temperature (°C) Surrounding Activity Scope of Monitoring Sampling & Analysis Protocol Sampling Duration Parameter Required

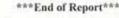
Near Gate No. - 3 VEL Representative (Mr. Amit Pandey) Sound Level Meter ÷ VEL/INS/ENV/SLM/10 Calibrated : Clear Sky 08/08/2023 To 09/08/2023 06:00 A.M. To 06:00 A.M. Min.24°C, Max.28°C Human & Vehicular Activities **Regulatory Requirement** ÷ IS: 9989 24 Hours ÷

As Per Work Order

S. No.	Test Parameters	Test Method	Test H		
			Day Time (06:00 A.M. To 10:00 P.M.)	Night Time (10:00 P.M. To 06:00 A.M.)	Units
1.	L _{Max}	IS: 9989	69.8	62.2	dB (A)
2.	L _{Min}	IS: 9989	51.4	49.7	dB (A)
3.	LEA	IS: 9989	65.22	56.59	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.

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Test Report

Sample Number: Name & Address of the Party:

VEL/N/03 M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli,

Madhya Pradesh - 486886

Report No.: Format No.: Party Reference No.:

Reporting Date: Period of Analysis: **Receipt Date:** Page No.:

VEL/N/2308160027 7.8 F-03 5703009832 Date : 14/06/2023 19/08/2023 16/08/2023 - 19/08/2023 16/08/2023 1 of 1

Sample Description:

AMBIENT NOISE LEVEL MONITORING

General Information Sampling Location Sample Collected By Sampling Instrument Used Instrument Code Instrument Calibration Status Meteorological Condition During Monitoring Date of Monitoring Time of Monitoring Ambient Temperature (°C) Surrounding Activity Scope of Monitoring Sampling & Analysis Protocol Sampling Duration **Parameter Required**

Near Gate No. - 1 ż VEL Representative (Mr. Amit Pandey) 2 Sound Level Meter : VEL/INS/ENV/SLM/10 2 Calibrated : : Clear Sky 09/08/2023 To 10/08/2023 ÷ 06:00 A.M. To 06:00 A.M. . Min.24°C, Max.29°C Human & Vehicular Activities **Regulatory Requirement** IS: 9989 2 24 Hours 2

As Per Work Order Ξ

S. No.	Test Parameters	Test Method	Test Results		
			Day Time (06:00 A.M. To 10:00 P.M.)	Night Time (10:00 P.M. To 06:00 A.M.)	Units
1.	L _{Max}	IS: 9989	70.2	65.9	dB (A)
2.	L _{Min}	IS: 9989	52.2	45.3	dB (A)
3.	L _{Eq.}	IS: 9989	66.78	59.64	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.

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Test Report

Sample Number: Name & Address of the Party:

VEL/N/04 M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886

Report No.: Format No.: Party Reference No.:

Reporting Date: Period of Analysis: **Receipt Date:** Page No.:

VEL/N/2308160028 7.8 F-03 5703009832 Date : 14/06/2023 19/08/2023 16/08/2023 - 19/08/2023 16/08/2023 1 of 1

Sample Description:

AMBIENT NOISE LEVEL MONITORING

General Information Sampling Location Sample Collected By Sampling Instrument Used Instrument Code Instrument Calibration Status Meteorological Condition During Monitoring Date of Monitoring **Time of Monitoring** Ambient Temperature (°C) Surrounding Activity Scope of Monitoring Sampling & Analysis Protocol **Sampling Duration** Parameter Required

:	Near Admin Building
	VEL Representative (Mr. Amit Pandey)
:	Sound Level Meter
:	VEL/INS/ENV/SLM/10
:	Calibrated
:	Clear Sky
:	10/08/2023 To 11/08/2023
:	06:00 A.M. To 06:00 A.M.
:	Min.24°C, Max.28°C
:	Human & Vehicular Activities
:	Regulatory Requirement
:	IS: 9989
:	24 Hours

As Per Work Order

S. No.	Test Parameters	Test Method	Test Results		
			Day Time (06:00 A.M. To 10:00 P.M.)	Night Time (10:00 P.M. To 06:00 A.M.)	Units
1.	L _{Max.}	1S: 9989	68.6	55.3	dB (A)
2.	L _{Min}	IS: 9989	46.4	40.7	dB (A)
3.	L _{Ea}	IS: 9989	57.37	50.80	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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ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: Name & Address of the Party:

VEL/N/01 M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886

Report No.: Format No.: Party Reference No.:

Reporting Date: Period of Analysis: **Receipt Date:** Page No.:

VEL/N/2309110001 7.8 F-03 5703009832 Date : 14/06/2023 14/09/2023 11/09/2023 - 14/09/2023 11/09/2023 1 of 1

Sample Description:

AMBIENT NOISE LEVEL MONITORING

General Information Sampling Location Sample Collected By Sampling Instrument Used Instrument Code Instrument Calibration Status Meteorological Condition During Monitoring **Date of Monitoring Time of Monitoring** Ambient Temperature (°C) Surrounding Activity Scope of Monitoring Sampling & Analysis Protocol Sampling Duration Parameter Required

Near Gate No. - 1 : VEL Representative (Mr. Amit Pandey) : Sound Level Meter 1 VEL/INS/ENV/SLM/10 Calibrated : : Clear Sky 07/09/2023 To 08/09/2023 . : 06:00 A.M. To 06:00 A.M. Min.24°C, Max.32°C Ξ Human & Vehicular Activities 2 **Regulatory Requirement** 1S: 9989 : 24 Hours :

: As Per Work Order

S. No.	Test Parameters	Test Method	Gerdine Environment of Test Results		
			Day Time (06:00 A.M. To 10:00 P.M.)	Night Time (10:00 P.M. To 06:00 A.M.)	Units
1.	L _{Max}	IS: 9989	73.4	66.5	dB (A)
2.	L _{Min}	IS: 9989	55.3	50.6	dB (A)
3.	L _{Eq.}	IS: 9989	60.78	52.58	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.



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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: Name & Address of the Party:

VEL/N/02 M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886

Report No.: Format No.: Party Reference No.:

Reporting Date: Period of Analysis: **Receipt Date:** Page No.:

VEL/N/2309180001 7.8 F-03 5703009832 Date : 14/06/2023 21/09/2023 18/09/2023 - 21/09/2023 18/09/2023 1 of 1

Sample Description:

AMBIENT NOISE LEVEL MONITORING

General Information Sampling Location Sample Collected By Sampling Instrument Used Instrument Code Instrument Calibration Status Meteorological Condition During Monitoring **Date of Monitoring** Time of Monitoring Ambient Temperature (°C) Surrounding Activity Scope of Monitoring Sampling & Analysis Protocol **Sampling Duration Parameter Required**

Near Admin Building ÷ VEL Representative (Mr. Amit Pandey) : Sound Level Meter 2 : VEL/INS/ENV/SLM/10 Calibrated : : Clear Sky 14/09/2023 To 15/09/2023 ÷ 06:00 A.M. To 06:00 A.M. 1 Min.25°C, Max.32°C \$: Human & Vehicular Activities : **Regulatory Requirement** : IS: 9989

- 4 24 Hours
- As Per Work Order :

S. No.	Test Parameters	Test Method	Test Results		
			Day Time (06:00 A.M. To 10:00 P.M.)	Night Time (10:00 P.M. To 06:00 A.M.)	Units
1.	L _{Max}	IS: 9989	67.1	60.5	dB (A)
2.	L _{Min}	1S: 9989	52.6	50.0	dB (A)
3.	L _{Eq.}	IS: 9989	62.69	55.28	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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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001



Sample Number: Name & Address of the Party:

VEL/N/03 M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886

Report No.: Format No.: Party Reference No.:

Reporting Date: Period of Analysis: Receipt Date: Page No.:

VEL/N/2309250007 7.8 F-03 5703009832 Date : 14/06/2023 27/09/2023 25/09/2023 - 27/09/2023 25/09/2023 1 of 1

Sample Description:

AMBIENT NOISE LEVEL MONITORING

- **General Information** Sampling Location Sample Collected By Sampling Instrument Used Instrument Code Instrument Calibration Status Meteorological Condition During Monitoring **Date of Monitoring** Time of Monitoring Ambient Temperature (°C) Surrounding Activity Scope of Monitoring Sampling & Analysis Protocol **Sampling Duration** Parameter Required
- Near Gate No. -2 : VEL Representative (Mr. Amit Pandey) : Sound Level Meter : 1 VEL/INS/ENV/SLM/10 Calibrated 2 1 Clear Sky 21/09/2023 To 22/09/2023 : : 06:00 A.M. To 06:00 A.M. Min.23°C, Max.29°C \$ 2 Human & Vehicular Activities **Regulatory Requirement** 2 IS: 9989 1
- : 24 Hours
- As Per Work Order 2

S. No.	Test Parameters	Test Method	Test Results		
			Day Time (06:00 A.M. To 10:00 P.M.)	Night Time (10:00 P.M. To 06:00 A.M.)	Units
1.	L _{Max}	IS: 9989	74.8	68.5	dB (A)
2.	L _{Min}	IS: 9989	57.2	47.1	dB (A)
3.	L _{Eq.}	IS: 9989	64.58	57.55	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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VEL/N/04



VEL/N/2310030002

Test Report

Report No.:

Name & Address of the Party:	M/s Mahan Energen Limited		Format No.: 7.8 F-03
	Village: Bandhora, Post: Karsu	alal,	Party Reference No.: 5703009832
	Tehsil: Mada, Distt.: Singrauli,		Date : 14/06/2023
	Madhya Pradesh - 486886		Reporting Date: 05/10/2023
			Period of Analysis: 03/10/2023 - 05/10/2023
			Receipt Date: 03/10/2023
			Page No.: 1 of 1
Sample Description:	AMBIENT NOISE LEVEL	MO	DNITORING
General Information			
			: Near Gate No 3
Sampling Location			[2] - 김 아직에서 방법이 가장 전쟁을 줄 수 있는 것이 아니지 않는 것이 아니지 않는 것이 있다. 이 가격 이 가지 않는 것이 있다. 이 가격 이 가격 이 있다. 이 가격 이 가격 이 가격 이 있다. 이 가격 이 가격 이 가격 이 있다. 이 가격 이 가격 이 있다. 이 가격
Sample Collected By			: VEL Representative (Mr. Amit Pandey)
Sampling Instrument U	sed		: Sound Level Meter
Instrument Code			: VEL/INS/ENV/SLM/10
Instrument Calibration	Status	;	: Calibrated
Meteorological Condition	on During Monitoring	:	: Clear Sky
Date of Monitoring		:	: 25/09/2023 To 26/09/2023
Time of Monitoring		3	: 06:00 A.M. To 06:00 A.M.
Ambient Temperature (°C)	:	: Min.22°C, Max.29°C
Surrounding Activity		:	: Human & Vehicular Activities
Scope of Monitoring		:	: Regulatory Requirement
Sampling & Analysis Pr	rotocol	:	: IS: 9989

: 24 Hours As Per Work Order .

S. No.	Test Parameters	Test Method	Test Results		
			Day Time (06:00 A.M. To 10:00 P.M.)	Night Time (10:00 P.M. To 06:00 A.M.)	Units
1.	L _{Max.}	1S: 9989	68.2	55.4	dB (A)
2.	L _{Min.}	IS: 9989	56.8	42.6	dB (A)
3.	L _{Eq.}	IS: 9989	61.55	49.97	dB (A)
4.	CPCB Limits In dB (A*) L _{Eq.} (Industrial Area)	121	75.00	70.00	dB (A)

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

Sampling Duration

Parameter Required



End of Report



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			GO Green M	echanisms Pvt Ltd		
			Analysis Results fo	or the Month of Ap	ril-23	
Compa	ny Name			Mahan Energen Lin		1.000
Sample	Туре			Soil		102 - 10 - Co.
Sample	Quantity			2 Kg	Station and	
Sample	Collected By			Laboratory Represe	entative	
Date of	Sampling		A service services	14.04.2023		
Analysi	s Period			21.04.2023 to. 27.0	4.2023	
				Location		
SL. No.	PARAMETERS	UNIT	Near Plant Area Core Zone	NagwaVillage (Buffer Zone)	Bandhura Village (Buffer Zone)	Reference Method
1	pH		6.29	7.24	7.41	IS 2720 (Part 26)
2	Organic Carbon	%	0.53	0.69	0.61	IS 2720 (Part XXII)
3	Available Phosphorus	kg/ha	17.27	17.61	19.49	GGMPL/SOP/SOIL/44
4	Electrical Conductivity	µS/cm	189	242	216	IS 14767
5	Water Holding Capacity	%	42.37	45.86	46.52	IS 14765
11	Potash Available	kg/ha	337.29	329.19	369.67	Method 3051A
12	Nitrogen Available	kg/ha	358.34	292.94	355.37	IS 14684: 2005
13	Molybdenium	mg/kg	BQL(QL=0.1)	BQL(QL=0.1)	BQL(QL=0.1)	Method 3051A
14	Calcium as Ca	%	0.413	0.351	0.253	Method 3051A
15	Magnesium as Mg	%	0.214	0.239	0.181	Method 3051A
16	Zinc as Zn	96	0.00118	0.00102	0.00146	Method 3051A
17	Manganese as Mn	%	0.00174	0.00135	0.00160	Method 3051A
18	Iron as Fe	%	0.00252	0.00310	0.00321	Method 3051A
19	Boron as B	%	0.00078	0.00025	0.00040	Method 3051A
20	Chloride as Cl	%	0.03123	0.03498	0.02749	GGMPL/SOP/SOIL/45
21	Soluble Sulphate	%	0.03770	0.03393	0.03582	IS 2720 (Part 27)
22	Texture		Silty Clay	Silty Clay	Siltiy Clay	USDA Method
23	Sand	96	18.00	21.00	13.00	USDA Method
24	Silt	%	42.00	40.00	44.00	USDA Method
25	Clay	%	40.00	39.00	43.00	USDA Method

Analysed By:	Approved By:
Shitolk.R.	R
Shiyal Kishor	Pankil Patel





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/S0/01	Report No.:	VEL/S0/2309270001
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, Madhya Pradesh - 486886	Callout No.:	Date : 14/06/2023
Sample Description:	Soil Sample	Reporting Date:	04/10/2023
Location:	Bandhaura Village (Buffer Zone)	Period of Analysis:	27/09/2023 - 04/10/2023
Sample Collected By:	VEL Representative (Mr. Amit Pandey)	Receipt Date:	27/09/2023
Sampling and Analysis Protocol:	IS: 2720 & STP	Sampling Date:	16/09/2023
Parameter Required:	As Per Work Order	Sampling Quantity:	2.0 Kg.
		Sampling Type:	Composite
		Preservation:	Temp. Sealed In Zipper Pouch

S. No.	Parameters	Test Method	Results	Units
1.	pH (at 25°C)	IS: 2720 (P- 26)	7.63	
2.	Oil & Grease	VEL/STP/EN/29,Issued No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.5)	mg/Kg
3.	Chloride (as Cl)	VEL/STP/EN/69, Issue No 01, Issue Date : 01/11/2021	178.20	mg/Kg.
4.	Sodium (as Na)	USDA: 1954 Method 10 A (Page-96) RA: 2010	125.00	mg/Kg.
5.	Potassium (as K)	VEL/STP/EN/61, Issue No 01, Issue Date : 01/11/2021	55.00	Kg/hec.
6.	Organic Matter	1S: 2720 (P- 22)	0.33	%
7.	Available Nitrogen (as N)	IS: 14684	280.80	Kg./hec.
8.	Available Phosphorus (as P)	VEL/STP/EN/73, Issue No 01, Issue Date : 01/11/2021	87.90	Kg./hec.
9.	Cyanide (as CN)	VEL/ENV/STP/S/04, Issue No 01, Issue Date : 01/10/2021	*BLQ(**LOQ-5.0)	mg/Kg.



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Test Report

Sample No.: VEL/S0/01			Report No.: VE	L/S0/2308080001
S. No.	Parameters	Test Method	Results	Units
10.	Total Zinc (as Zn)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	9.07	mg/Kg.
11.	Total Manganese (as Mn)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	79.45	mg/Kg.
12.	Total Chromium (as Cr)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	3.55	mg/Kg.
13,	Total Lead (as Pb)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	1.85	mg/Kg,
14.	Cadmium (as Cd)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/202	*BLQ(**LOQ-0.1)	mg/Kg.
15.	Total Copper (as Cu)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	1.87	mg/Kg.
16.	Arsenic (as As)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	0.50	mg/Kg.
17.	Iron (as Fe)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	2084.20	mg/Kg.
18.	Mercury (as Hg)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	*BLQ(**LOQ-0.1)	mg/Kg.

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



Page No.: 2 of 2



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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/S0/02	Report No.:	VEL/S0/2309270002
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, Madhya Pradesh - 486886	Callout No.:	Date : 14/06/2023
Sample Description:	Soil Sample	Reporting Date:	04/10/2023
Location:	Karsualal Village (Buffer Zone)	Period of Analysis:	27/09/2023 - 04/10/2023
Sample Collected By:	VEL Representative (Mr. Amit Pandey)	Receipt Date:	27/09/2023
Sampling and Analysis Protocol:	IS: 2720 & STP	Sampling Date:	16/09/2023
Parameter Required:	As Per Scope of Work	Sampling Quantity:	2.0 Kg.
		Sampling Type:	Composite
		Preservation:	Temp. Sealed In Zipper Pouch

5. No.	Parameters	Test Method	Results	Units
L	pH (at 25°C)	IS: 2720 (P- 26)	7.31	
2.	Oil & Grease	VEL/STP/EN/29,Issued No. – 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.5)	mg/Kg
3.	Chloride (as Cl)	VEL/STP/EN/69, Issue No 01, Issue Date : 01/11/2021	158.22	mg/Kg.
4.	Sodium (as Na)	USDA: 1954 Method 10 A (Page-96) RA: 2010	141.00	mg/Kg.
5.	Potassium (as K)	VEL/STP/EN/61, Issue No 01, Issue Date : 01/11/2021	44.00	Kg/hec.
6.	Organic Matter	IS: 2720 (P- 22)	0.30	%
7.	Available Nitrogen (as N)	IS: 14684	265.32	Kg./hec.
8.	Available Phosphorus (as P)	VEL/STP/EN/73, Issue No 01, Issue Date : 01/11/2021	80.41	Kg./hec.
9.	Cyanide (as CN)	VEL/ENV/STP/S/04, Issue No 01, Issue Date : 01/10/2021	*BLQ(**LOQ-5.0)	mg/Kg.



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Test Report

Sample No.: VEL/S0/02			Report No.: VEL/S0/23080	
S. No.	Parameters	Test Method	Results	Units
10.	Total Zinc (as Zn)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	8.48	mg/Kg.
11.	Total Manganese (as Mn)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	81.55	mg/Kg.
12,	Total Chromium (as Cr)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	2.51	mg/Kg.
13.	Total Lead (as Pb)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	2.33	mg/Kg.
14.	Cadmium (as Cd)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/202	*BLQ(**LOQ-0.1)	mg/Kg.
15.	Total Copper (as Cu)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	1.95	mg/Kg.
16.	Arsenic (as As)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	0.44	mg/Kg.
17.	Iron (as Fe)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	2054.19	mg/Kg.
18.	Mercury (as Hg)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	*BLQ(**LOQ-0.1)	mg/Kg.

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



Page No.: 2 of 2



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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: Name & Address of the Party:	VEL/S0/03 M/s Mahan Energen Limited Village: Bandhora, Post: Karsualal, Tehsil: Mada, Distt.: Singrauli, Madhya Pradesh - 486886	Report No.: Format No.: Party Reference No.: Callout No.:	VEL/S0/2309270003 7.8 F-03 5703009832 Date : 14/06/2023
Sample Description: Location:	Soil Sample Near Gate No. – 3 (Core Zone)	Reporting Date: Period of Analysis:	04/10/2023 27/09/2023 - 04/10/2023
Sample Collected By: Sampling and Analysis Protocol:	VEL Representative (Mr. Amit Pandey) IS: 2720 & STP	Receipt Date: Sampling Date:	27/09/2023 16/09/2023
Parameter Required:	As Per Work Order	Sampling Quantity: Sampling Type: Preservation:	2.0 Kg. Composite Temp. Sealed In Zipper Pouch

S. No.	Parameters	Test Method	Results	Units
1.	pH (at 25°C)	IS: 2720 (P- 26)	7.45	-
2.	Oil & Grease	VEL/STP/EN/29,Issued No 01, Issue Date : 01/11/2021	*BLQ(**LOQ-0.5)	mg/Kg
3.	Chloride (as Cl)	VEL/STP/EN/69, Issue No 01, Issue Date : 01/11/2021	167.50	mg/Kg.
4.	Sodium (as Na)	USDA: 1954 Method 10 A (Page-96) RA: 2010	110.00	mg/Kg.
5.	Potassium (as K)	VEL/STP/EN/61, Issue No 01, Issue Date : 01/11/2021	47.00	Kg/hec.
6.	Organic Matter	IS: 2720 (P- 22)	0.27	%
7,	Available Nitrogen (as N)	IS: 14684	271.50	Kg./hec
8.	Available Phosphorus (as P)	VEL/STP/EN/73, Issue No 01, Issue Date : 01/11/2021	86.80	Kg./hec
9.	Cyanide (as CN)	VEL/ENV/STP/S/04, Issue No 01, Issue Date : 01/10/2021	*BLQ(**LOQ-5.0)	mg/Kg.



Page No.: 1 of 2



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Vardan EnviroLab Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr) ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample No.: VEL/S0/03			Report No.: VE	L/S0/2308080003
S. No.	Parameters	Test Method	Results	Units
10.	Total Zinc (as Zn)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	8.77	mg/Kg.
11.	Total Manganese (as Mn)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	78.07	mg/Kg.
12.	Total Chromium (as Cr)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	2.74	mg/Kg.
13.	Total Lead (as Pb)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	1.77	mg/Kg.
14.	Cadmium (as Cd)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/202	*BLQ(**LOQ-0.1)	mg/Kg.
15.	Total Copper (as Cu)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	1.74	mg/Kg.
16.	Arsenic (as As)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	0.47	mg/Kg.
17.	Iron (as Fe)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	2010.94	mg/Kg.
18.	Mercury (as Hg)	VEL/STP/HW/03, Issue No 01, Issue Date : 01/10/2021	*BLQ(**LOQ-0.1)	mg/Kg.

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



Page No.: 2 of 2



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Mahan Energen Limited

Annexure-II

<u>Greenbelt Details:</u>

Year	Total Plantation	Area Covered (in Ha)	Plantation Survival Rate
FY- 2022-2023	5161	7.0	
FY- 2023-2024	50,160	5.176	More than 90 %
Total Plantation	158,606	121.21	

PLANTED SPECIES IN AND AROUND PLANT PREMISES

Sr. No.	Scientific Name	Common Name
Trees		
1.	Peltophorum pterocarpum	Yellow Gulmohar
2.	Azadirachta indica	Neem
3.	Madhuca longifolia	Mahua
4.	Vachellia nilotica	Babool
5.	Tectona grandis	Saghwan
6.	Ficus benjamina	Ficus
7.	Millettia pinnata	Karanj
8.	Albizia saman	Rain Tree
9.	Delonix regia	Gulmohar
10.	Senna siamea	Kasod
11.	Syzygium cumini	Jamun
12.	Mangifera indica	Mango
13.	Psidium guajava	Guava
14.	Manilkara zapota	Chiku
15.	Phyllanthus emblica	Amla
16.	Artocarpus heterophyllus	Jack Fruit
17.	Gmelina arborea	Gumhar
18.	Saraca asoca	Ashoka
19.	Cassia fistula	Amaltaas
20.	Mimusops elengi	Molshree
21.	Terminalia arjuna	Arjun
22.	Dalbergia sissoo	Sisham
23.	Bombax ceiba	Simal
24.	Juniperus	Hapusa
25.	Thuja	Thuja
26.	Moringa oleifera	Drumstick
27.	Brahea	Palm
28.	Lagerstroemia speciosa	Zarul
29.	Aegle marmelos	Bel
Shrubs		· · · · · · · · · · · · · · · · · · ·
30.	Callistemon	Bottle Brush
31.	Codiaeum variegatum	Croton
32.	Rosa	Rose
33.	Bougainvillea	Bougainvillea
34.	Hibiscus	China rose
35.	Mussaenda erythrophylla	Mussaenda
36.	Plumeria Spp	White Frangipani
37.	ixora coccinea	ixora
38.	Tabernaemontana divaricata	Pinwheel flower
39.	Cycas revoluta	Cycas
40.	Lantana camara	Lantana
41.	Berberis thunbergii	Hedge



Annexure-III

ASH PERCENTAGE IN COAL

(April'2023 to September'2023)

Month	Coal Consumption (MT)	Ash Content in Coal (%)	
April'2023	444757	35.56	
May'2023	351919	33.97	
June'2023	358024	34.45	
July'2023	361347.5	32.17	
August'2023	240257.3	32.10	
Septemeber'2023	226061.98	32.55	
<u>Average (%)</u>		33.46	

MT- Metric Tone

* Mahan Energen Limited (MEL) is based on <u>**Pit head**</u> Thermal Power Plant .



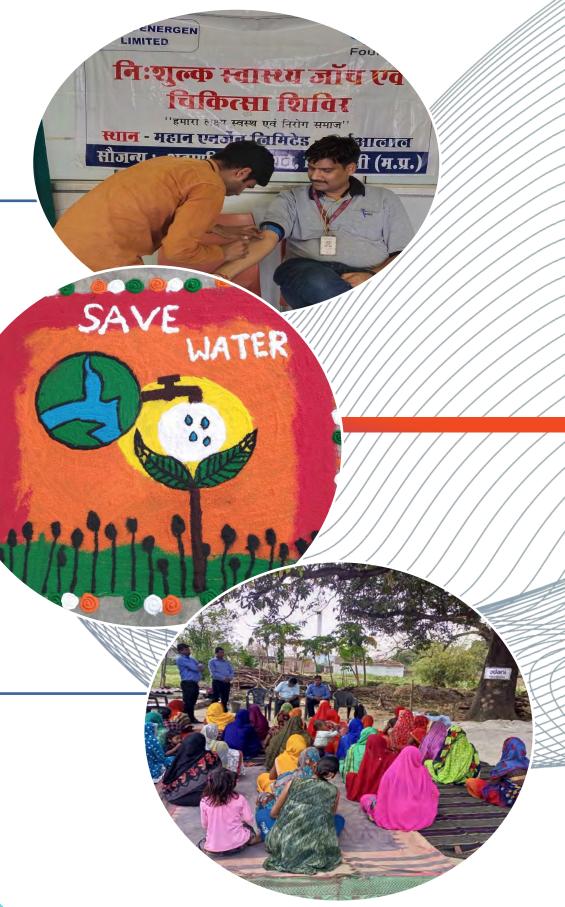
Ash Generation and Utilization Details (April'2023-September'2023)

		Ash/Pond	Ash Utilized (MT)		Ash Utilized (%)	
Month	Total Ash Generation (MT)	Cement (MT)	Low lying area (Inside the plant premises for area development/ Construction)	Total Ash Utilized (MT)		
Apr-23	158143	77018	114801	191819	121.29	
May-23	119547	43126	115748	158875	132.90	
Jun-23	123335	50525	101015	151540	122.87	
Jul-23	116239	9440	108882	118322	101.79	
Aug-23	77132	31	87724	087755	113.77	
Sep-23	73590	0	73521	073520	99.90	
Total	667986	180140	601691	781831	117.04	

Madhya Pradesh CSR Half Yearly Report 2023-24 Singrauli

Adani Foundation Mahan Energen Limited Village- Bandhaura,Post- Karsualal, Dist.-Singrauli-486886 www.adanifoundation.com Annexure V





Preface

It is with immense pleasure and pride that I present the half-yearly report of the Adani Foundation's CSR activities in Singrauli district. At Adani Foundation, we firmly believe in the power of responsible corporate citizenship to transform lives and uplift communities. Singrauli, with its rich cultural heritage and vibrant communities, has been a focal point of our efforts to make a meaningful and sustainable impact. Over the past six months, our CSR initiatives in Singrauli have gained momentum, thanks to the relentless dedication of our team, the support of our partners, and the active participation of the local community. Through our various projects and programs, we have strived to address pressing challenges, promote education, enhance healthcare facilities, and foster economic empowerment. This report serves as a testament to the progress we have achieved, the hurdles we have overcome, and the lives we have touched. It highlights the stories of resilience, hope, and positive change that have emerged from our initiatives. We have endeavored to create a holistic approach, focusing not only on immediate needs but also on building a sustainable future for the residents of Singrauli. We are deeply grateful for the trust and collaboration extended to us by the people of Singrauli, the local authorities, and our esteemed partners.

As we move forward, we remain committed to our mission of empowering communities, nurturing talent, and creating pathways to prosperity. The challenges ahead are significant, but so is our determination to overcome them. With your continued support, we are confident that we can make a lasting difference in the lives of the people of Singrauli. I extend my heartfelt gratitude to everyone who has contributed to our initiatives in Singrauli. Your support fuels our passion and propels us toward achieving greater milestones in the future.



Manoj Prabhakar Program Manager Adani Foundation Singrauli

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CSR Singrauli

DEMOGRAPGIC DETAILS

Tehsil - 3 Development Block -3 Gram Panchayat - 328 Revenue Village - 814 Household - 243925 Population - 1510000 Scheduled Tribes (ST) - 32.59 % Scheduled Caste (SC) - 12.79%

Thermal Plant/ Project Core Village:-

Bandhaura , Nagwa, Khairahi & Karsualal

Thermal Plant/ Project Peripheral Villages

Semua, Suhira, Amilia, Railla, Chaura, Malga Ghuni, Karsuaraja

Coal Transport Area Village:-

Jamgadi, Khanua Khas, Gajra Bahra, Bhalia Tola Phatpani, Gorbani, Suliyari, Jhalri

Adani Foundation's outreach in 2 blocks name Devsar & Waidhan. Total 20

villages of 17 Gram Panchayats; 5432 households; Population; 26957





Community Health

MEL, Singrauli Health Care Unit regularly running Hospital in Nagwa Village, Health care Unit provided Health Care Services to all age group at R&R Colony and other peripheral village. Also organized specialized health camp.

> R&R Hospital OPD

> > Total Male Treated -3247

Total Female Treated -3532

Total Child Treated -3313



Education

The adani Foundation's provide Free education to all R&R family village Nagwa, children encourage underprivileged students with promising academic records to complete school and pursue higher education. Children, especially girls, being raised by single mothers and women headed families find special mention within this framework. So far, This academic year 2023-24, 12,00 students have benefited, with this program. In certain cases, the Foundation also facilitates sponsorships for deserving students pursuing higher education.

Free School Dress material







Free Education

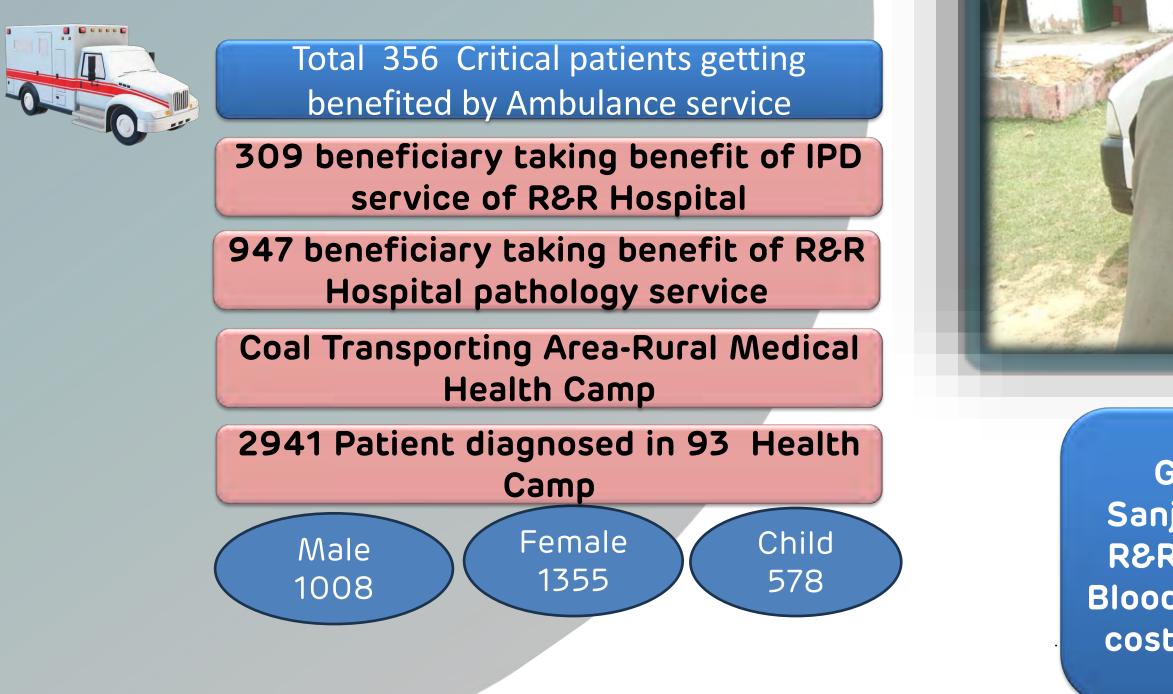
1200 Students from R&R Family

Free Book & Stationary

1 Nos Teachers Skill Development training

Community Health

MEL, Singrauli R&R Hospital Provide Ambulance facility to critical patients during Emergency case.





Government Scheme Linkage – Sanjivani Program Adani foundation R&R Hospital Team provide full body Blood check-up to 328 Villagers, which cost in Market approx. Rs. 4.92 Lakh

Utthan

adani Foundation's signed MOU with District education department, Singrauli for Project Utthan on 30th May'23 and project Utthan Launch on 23rd June'23 in Govt. Higher Secondary School, Karsuaraja Village. Under Project Utthan adani foundation adopted 21 Govt. School in Power Plan Area.

2500 Students from 21 Govt. School will be benefited

- 13 Utthan Sahayak Appointed
- Base Line assessment done
- o 13 Utthan Sahayk Getting Training of Teaching method
- Total 1594 Progressive learner covered FY 23-23 in FLN





Sustainable Livelihood Development Program

Skill Development Training Program

Adani Foundation, in its relentless pursuit of empowering communities, proudly conducted batches of a comprehensive sewing training program and Electric motor winding training program. This initiative aimed at enhancing the skill and independence of women & youth from diverse background. By empowering these women & youth, the foundation continues its mission to make a positive impact on communities and promote sustainable livelihood.

Annapurna Program

Under the Adani Annapurna program, the Adani Foundation actively promotes organic farming practices, striving to reduce fertilizer costs and enhance the overall health and well-being of villagers. By advocating sustainable agricultural methods, the Foundation aims to create a healthier environment, empower local communities, and foster a future rooted in ecological harmony.







Program name	No. of Beneficiary	Remark
Sewing Training	65	Women & Youth Generating their livelihood after Training
Electric motor winding Training	30	After
Annapurna kit distribution	80	Provide Quality seeds to women farmer
Vermi compost Production	38	4025 Kg of organic manure was produced
organic pesticide	35	500 Liters pesticide produced
Vegetable Cultivation	80	Vegetables worth Rs 3 lakh were produced

Sustainable Livelihood Development Program

Total

Village

6

Total

Camp

6

No. of

Benefi

ciary

191

Adani Kamdhenu Program

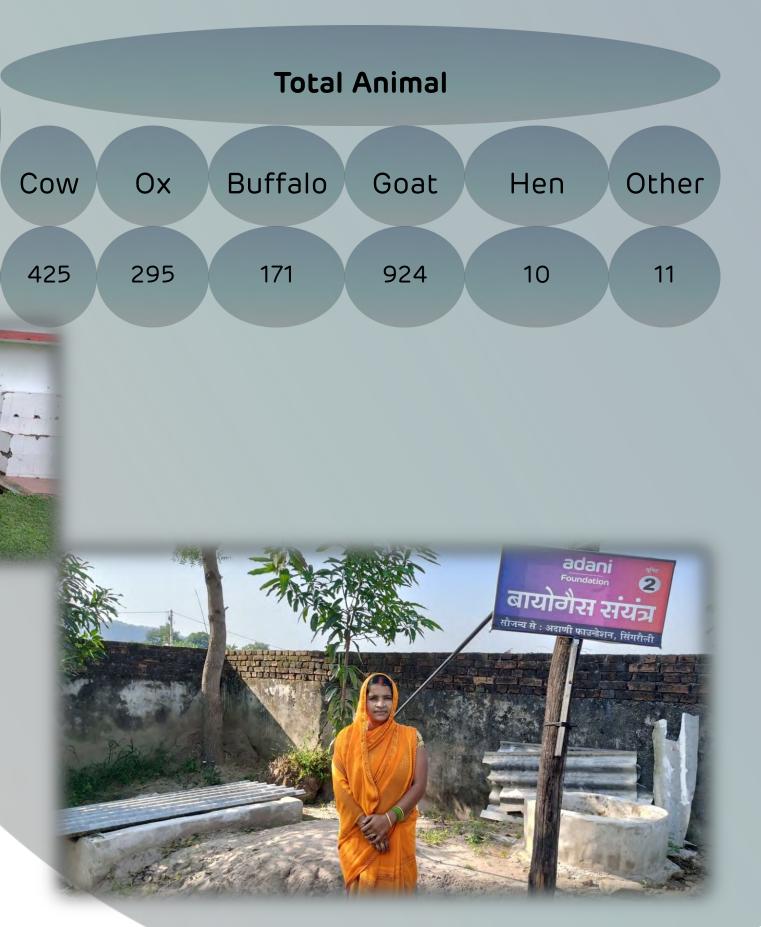
Adani Foundation recently made history in village areas by organizing the first-ever series of Animal Health Camps. In a groundbreaking Covered initiative, six camps were conducted, addressing the vital need for animal welfare in rural communities. These camps, a testament to the Foundation's commitment, provided essential veterinary care and expertise, ensuring the well-being of livestock. By focusing on animal health, the Foundation not only uplifted rural economies but also strengthened the bond between communities and their animals, fostering a healthier, more sustainable future for all.

Bio Gas Plant

Adani Foundation proudly constructed **5** bio-gas plants in **4** villages which Name is Nagwa, Raila, Karsuaraja and Karsualal. ushering in a new era of sustainable energy. These eco-friendly initiatives not only promote clean energy but also empower rural communities, contributing significantly to environmental conservation and improved/living standards.

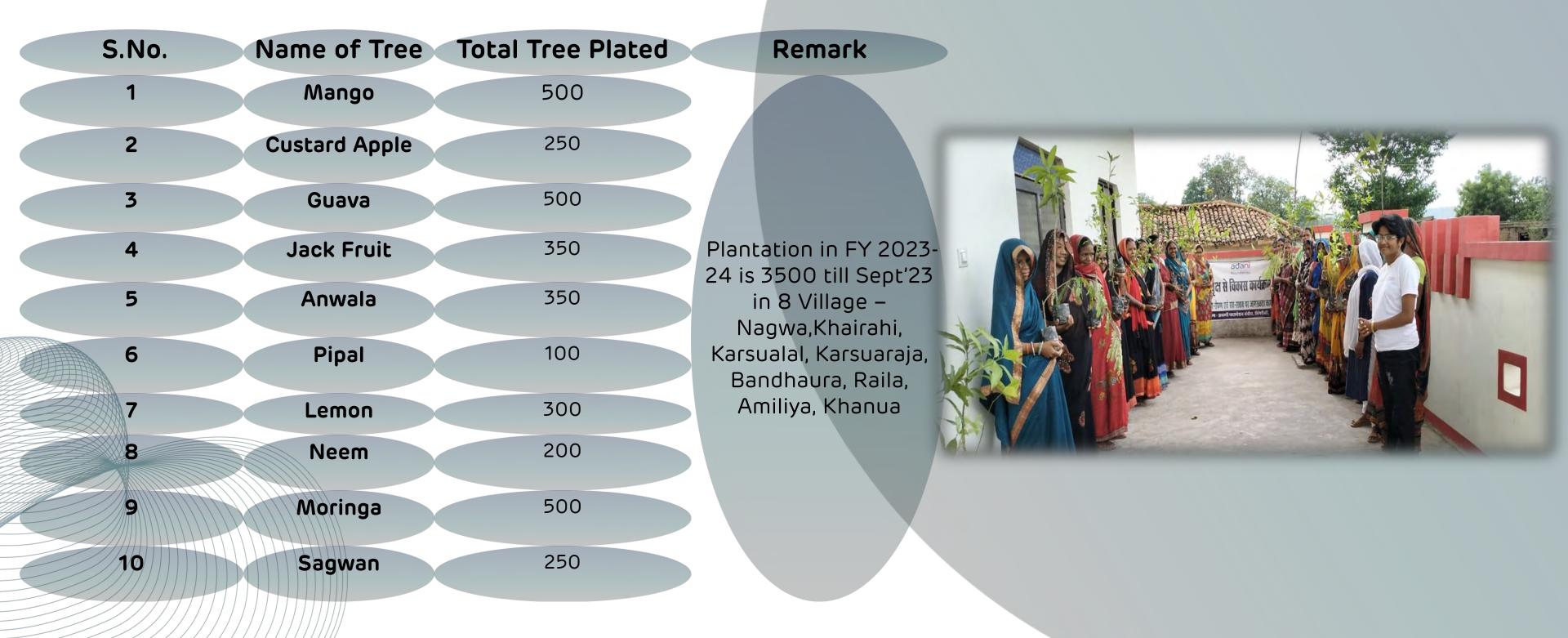






Vruksh Se Vikash

In alignment with our Chairman's visionary goal of planting 1 trillion trees by 2030, Adani Foundation took a significant step forward by planting 3500 saplings. This initiative exemplifies our dedication to realizing this ambitious vision, fostering a greener planet and sustainable future for generations to come.





Community Infrastructure

3 pond deepening work has been Completed and increase water storage

Drainage clearing of R & R colony Nagwa with 12 km length has been completed .

Completed painting work for 2 schools at Khairahi village

Adani Foundation Renovate Raila Gram Panchayat Bhawan







Project status dashboard (Approval and implementation status)

Sr No	Thematic Area	No. of Ac tivities	NFA	PR	ΡΟ	Work Status				
						Before Time	As planned	Work started but delayed	Not Started	Cancelled
1	Education	4	4	4	4	0	4	0	0	0
2	Health	5	5	5		0	5	0	0	0
3	SLD	5	5	5	5	0	5	0	0	0
4	CID	2	2	2	1	0	1	0	1	0
5	Admin	12	12	12	12	0	12	0	0	0
	Total	28	28	28	27	0	27	0	1	0



Fund utilization status

SINo	Site	Budget 2023-24	Expenditure (Up to 30 th Sep 23)	%
1	Education	173.69	78.19	45%
2	Health	77.41	20.17	26%
3	SLD	35.83	11.32	32%
4	CID	31.5	5.21	17%
5	Admin	21.76	11.17	51%
		340.19	126.06	34%



Organized Science Exhibition By R&R SSM School



One Day Science Exhibition organized at Community Centre Nagwa total 70 Students participated in this exhibition and approx. 1000 Students and 100 parents visited this science exhibition.

Pravesh Utsav



Organize Pravesh Utsav for New Admission academic year 2023-24, total 31 New students participated in this program.



School Dress & Stationary Material Distribution



Provide School Dress material to SSM School student from class Nursery Standard to 12th Standard. Total 1200 Students benefits from this program.

livelihood center for SHG products.



project affected village SHGs are making different products like cleaning products, dhoopbatti, vermi compost, sawbrani cups, etc. haven't any platform for selling the without products mediator/retailor/distributor chain.

Slow Cycle Race competition on environment day Pakhwada



Organize Slow Cycle Race competition on environment day Pakhwada at Karsuaraja Village Approx. 100 youth participated in the competition and awarded top 5 winners .



International Day against Drug Abuse and Illicit Trafficking



Adani Foundation organized sensitization program with support of MP SACS, Health Department on Drug abuse Illicit Trafficking and ON International Day against Drug Abuse Illicit and Trafficking. Total 60 youth, women's and other village member presented were during session

World Environment Day Celebration



Organize Environment Awareness Program along with Tree plant distribution and plantation Total approx. 150 SSM School Students participated in this program

National Reading Day Celebration



To make this day engaging, and memorable for Students and teachers we organized Book reading, Story Telling news Paper reading and program. in this program total 100 Students plus 40 Teachers from SSM School Participated.



International Yoga Day Celebration



Celebration of International Day Nagwa Yoga at Community Center with SSM School Students, Teachers, R&R Hospital Staff and Villagers . Total 100 Students, 25 Teachers, 10 R&R Hospital Villagers Staff, 30 Participated in this program. AF Team Provide T-Shirt to all participants.

Utthan Program Launch Ceremony



Adani Foundation organized Utthan Launch Program at Karsuaraja Higher Secondary School . In this program SDM Mada Tehsil Shri. B.B. Pandey DPC Shri. Ram Lakhan Shukla and other District Education Department Officers,21 Head master & 2 Principal of Govt. School and 6 Sarpanch Participated in this Program .

Adani Samaroh



Under the Women Leadership Programme, Adani Foundation hosted the Sawan Mahotsav in which the members of Usha Kiran Women Group celebrated the Sawan Mahotsav. In this program, 40 members of Usha Kiran Mahila Group presented a cultural program in which about 200 women and 50 men of the village participated.



Birthday Celebration of Chairperson Ma'am - AF



The birthday of Adani Foundation Chairperson Dr. Preeti G. Adani was celebrated by the members of the Usha Kiran Women's Group, in which 40 women members of the group, the members of the R&R Colony Hospital celebrated the birthday by cutting the cake and many congratulations were given.

Sports Tournament



For Promotion of Sports and Culture Adani Foundation Organized Football and Cricket Tournament at Nearby Coal Mines area villages of Phatpani & Bhaliyatola in which approx. 8 teams participated, and all the youngsters are happy with our such initiatives, this event help us to create a positive environment among community.

Independence day Celebration



On this auspicious day, various types of cultural presentations were given by the school students, seeing which a feeling of pride and happiness appeared on the faces of the villagers. 1200 school students and 1000 villagers participated in this program and boosted the morale of the children.



Inter-School Sports Competition



Organized 2 Days Interschool Sports Competition, 750 students from 15 schools participated in the inter-school sports competition.

National Sports Day Celebration





Celebrate National Sports Day with Utthan School, SSM School and 2 Private School Students . 250 Nos. Students and winning school awarded by adani foundation.



Celebrating Teachers Day with SSM School Teachers and Staff.

We Provided Gifts for all 46 staff.



Swasthya Mela



Adani Foundation Organized Swasthya Mela With Health of Health Department . AF team covered 2 Location Raila & Chaura Village under Swasthya Mela .

Success Story

Overcoming Adversity and Rediscovering Health



Sudarshan Biar, a resident of Nagwa village, faced a challenging journey on his way to recovery. His remarkable story is a testament to the power of Dr. Vishwas Singh's resilience, determination and compassionate care at the rehabilitation hospital. Sudarshan's battle began with the diagnosis of diabetes, a condition that requires constant vigilance. However, fate dealt him a blow when an unfortunate work-related injury turned into a debilitating wound. Sudarshan's determination took him to several hospitals, including a brief stint at Sanjay Gandhi Hospital. But the burden of financial constraints forced him to discontinue his treatment, causing his condition to rapidly deteriorate.

As his injury worsened, the function of his hand soon became endangered. In the darkest time of his life, Sudarshan reached out to Dr. Vishwas Singh, who was a ray of hope in the stormy sea of troubles. With compassion and expertise, Dr. Singh took Sudarshan under his wing and began a treatment plan that changed Sudarshan's life forever.

Dr. Singh's approach was multidimensional. He started by addressing the root cause, effectively managing Sudarshan's diabetes. Regular checkups and a strict control regimen helped stabilize his blood sugar levels. Along with this, Dr. Singh performed careful dressing and care of the wound, which ensured that the infection was

blood sugar levels. Along with this, Dr. Singh performed careful dressing and care of controlled and gradually eliminated.

This journey was not without challenges. Despite the pain and uncertainty, Sudarshan's commitment to his recovery was unwavering. He diligently followed Dr. Singh's guidance, made lifestyle adjustments, and adhered to prescribed medications. It was a difficult process, but Sudarshan never lost sight of his goal – to regain his health and the use of his hand. Slowly but steadily, the disease began to subside. Sudarshan's wound started healing and his diabetes came under control. His persistence paid off and he regained full use of his hand. This transformation was nothing short of a miracle, a testament to Sudarshan's resilience and Dr Singh's unwavering commitment to his patient's well-being.

Today, Sudarshan Briar stands as a symbol of hope and triumph over adversity. Her success story serves as a reminder that with the right support, determination, and access to compassionate healthcare, individuals can overcome even the toughest challenges life throws at them. Sudarshan's journey from despair to health is a shining example of the indomitable human spirit and the healing power of medical expertise and empathy. For which Sudarshan thanked the health services of Adani Foundation.



Sudhari Vishwakarma's Road to Recovery

Success Story



Sudhari Vishwakarma, a displaced resident of Khairahi, found herself facing a medical emergency when she experienced sudden severe leg pain. However, thanks to the quick thinking and actions of her husband, Shankhlal Vishwakarma, and the assistance provided by Adani Foundation, Sudhri's health took a turn for the better. Shankhlal immediately contacted the ambulance services of Adani Foundation to seek help for Sudhri's condition. Recognizing the urgency of the situation, the foundation promptly dispatched Babulal, one of their skilled ambulance staff members, to provide immediate medical aid. Babulal arrived swiftly and accompanied Sudhri to Mishra Polyclinic Waidhan Hospital, an good healthcare facility.

At the hospital, Sudhri received the necessary medical attention and was prescribed anti inflammatory medication to alleviate her leg pain. The medical staff closely monitored her progress and ensured that she received appropriate care. After the medication started taking effect, Sudhri's condition improved significantly. Thanks to the coordinated efforts of Shankhlal, Adani Foundation's ambulance services, and the healthcare professionals at Mishra Polyclinic Waidhan Hospital, Sudhri's health steadily improved. The timely response and effective treatment provided to her played a crucial role in her recovery journey. This success story highlights the importance of swift action during medical emergencies and the impact community organizations like Adani Foundation can have in providing crucial healthcare services to those in need. Sudhri's experience serves as an inspiring example of how a supportive network and efficient medical intervention can make a significant difference in someone's life, ultimately leading to improved health and well-being



From Smoke to Sustainability: Shrimati Yadav's Biogas Journey

Success Story



Shrimati Yadav, a resilient resident of a remote village nagwa in project effected area, embarked on a remarkable journey towards sustainable living, thanks to the generous support of the Adani Foundation. Her inspiring success story underscores the transformative power of financial aid and how it can change lives for the better.

Living in a region with limited access to clean cooking fuel, Shrimati Yadav faced daily challenges with traditional cooking methods that relied on firewood, cow dung and costly LPG. These methods not only consumed her valuable time but also exposed her family to indoor air pollution, jeopardizing their health and well-being. The situation was daunting, but Shrimati Yadav was determined to make a change.

Her ray of hope came in the form of the Adani Foundation, which recognized the potential for positive change in her life and community. With their financial support and expertise in sustainable technologies, Shrimati Yadav was able to realize her dream of installing a biogas plant on her family's farm.

Under the guidance of the Adani Foundation, Shrimati Yadav acquired the necessary knowledge and resources to set up the biogas digester. Organic waste from her farm, including cow dung and kitchen scraps, was efficiently processed by the biogas plant, providing her family with a consistent and clean source of cooking fuel.

The impact was immediate and transformative. Shrimati Yadav's family no longer had to endure the laborious task of collecting firewood, freeing up time for more productive activities. Moreover, their health improved as they were no longer exposed to harmful indoor smoke. The biogas plant also produced nutrient-rich slurry, which enhanced agricultural yields, further boosting the family's economic well-being.

Filled with gratitude, Shrimati Yadav expressed her heartfelt thanks to the Adani Foundation for their unwavering support and generosity. Their assistance not only changed her family's cooking style but also improved their overall quality of life. She shared her story with her community, inspiring others to embrace sustainable living practices.

Shrimati Yadav's journey from dependence on traditional cooking methods to self-reliance through biogas, with the invaluable help of the Adani Foundation, serves as a shining example of how financial assistance can create lasting change. Her gratitude and success story are a testament to the positive impact that philanthropic organizations can have on the lives of individuals and communities, even in the most remote and underserved areas.



Adani- Sanjivani-Rural Lab Test

Success Story



In the heart of rural India, where access to quality healthcare is often a challenge, a ray of hope emerged through the collaboration of the Adani Foundation and the government's Sanjeevani program. Their joint effort aimed to provide free complete blood tests to the villagers, but the initial lack of awareness hindered the scheme's impact. Undeterred, the Adani Foundation took it upon themselves to bridge this awareness gap. They organized free complete blood test camps in every village, spreading the word about this lifesaving opportunity. The villagers were soon enlightened about the benefits that awaited them, thanks to the selfless efforts of the foundation. As soon as it became known to the villagers that Adani Foundation is conducting free blood test camps, more and more villagers came forward to avail free blood tests under Sanjeevani Yojana. In the month of July alone, 215 people underwent these essential tests, giving priority to their health without worrying about financial constraints. Adani Foundation's commitment to this cause was evident when they provided free testing for a total of 328 tests costing Rs 4 lakh 92 thousand . Its dedication in bringing quality health care to the doorsteps of rural communities has earned her the heartfelt appreciation of the villagers. With each test performed, lives were impacted, diagnoses were made, and early detection became a reality. The scheme proved to be a game-changer, empowering villagers to take responsibility for their own health and well-being. With the tireless efforts of Adani Foundation and the support of the Sanjeevani programme, a success story has come to the fore. The villagers saw firsthand how compassion, collaboration and innovation can change lives. With new hope, the future looks bright for these rural communities thanks to the commendable work of Adani Foundation



Sunita Rajak Story

Success Story



In the quaint village of Bandhaura, 2004, I was born into a family of six, filled with love and joy. However, the absence of a son led my father down a troubled path, causing discord in our home. Despite the challenges, my resilient mother, Shrimti Parvati Rajak, sustained us by working diligently, ensuring my sister and I received an excellent upbringing.

In 2009, our lives took a turn when Essar Powder M.P. Limited arrived, prompting our family's relocate to Nand Vihar Colony Nagwa. By then, my father had remarried, leaving my mother to shoulder the responsibilities alone. Although she strived to provide for us and educate me, our household's condition remained dire.

Witnessing my mother's struggles, I longed for change. In 2023, a ray of hope emerged in the form of a sewing training center established by the Adani Foundation in Nandvihar Colony Nagwa. My sister and I seized the opportunity, completing a three-month sewing training course. Armed with newfound skills, I began my sewing venture at home, reaching out to neighboring villages.

Through perseverance and determination, my sewing shop gained popularity, transforming our lives. The Adani Foundation played a pivotal role, not only in providing training but also empowering me to be self-reliant. Today, I am proud to support my family, ensuring a comfortable life for my mother and myself. I extend my heartfelt gratitude to the Adani Foundation, whose support brought happiness and self-sufficiency into our lives. My success story stands as a testament to the transformative power of education, determination, and the invaluable assistance provided by organizations like the Adani Foundation.



Media Coverage

अदाणी फाउंडेशन के सहयोग से प्रशिक्षण लेकर वाशिंग पाउडर बनाने में महिलाएं हुईं दक्ष, बनेंगी आत्मनिर्भर



धयलबा को युनियन केंह - ग्रामीण स्वरोलगार प्रशिक्षण संस्थान के द्वारा - आलोगिका का साधन लुटा सकें। कर्स्आलाल गांव में छह दिवसीय वाशिंग पाउडर बनाने का प्रशिक्षण दिया गया। इस प्रशिक्षण शिविर में कल 35 रुवनीय महिलाएं लाभान्यित हई और उन्हें प्रशिक्षण प्रमाण पत्र दिया गया। निःशल्क प्रशिक्षण के दौरान 🕴 और छोटे स्वर के व्ययतार शुरू करने के उपरांत धीरे-धीरे आगे वह 🛛 हैंगि कार्य से जुडी है, वैसी महिलाओं को खेतों को उपजाऊ बनाने के महिलाओं को साथ, भोजन एवं डेय की सुविधा ग्रामीण स्वरोजनार - प्रकरों हैं। प्रशिक्षण के दौरान इस कार्य को करने में लगने वाली पूंजी की प्रशिक्षण संस्थान द्वारा उपलब्ध कराया गणात्वस प्रशिक्षण शिविर में व्यशिंग वाउटर बनाने को संपर्ण विधि, करने माल की उपनव्धता, याल की टर, गंगी एवं अताया गया कि ग्रामीण महिलाएं अलग-आलग व्यापार के लिए उत्पाद के लिए संभावित काजर एवं दस्तावेजीकरण जैसे विषयों के करें े हिला, किसोर एवं तरुण भोजना का लाभ मुद्रा योजना के अंतर्यत ले सकती में यूनियन केंक की विजय क्यार, की समकरण और अक्षणी फाउंडेशन हैं। अदाणी फाउंडेशन के मुलाविक जब तक प्रशिक्षण प्राप्त महिलाओं की में समेहण की महारूम का उत्पादन, धुयबती, अगरवती पूर्व

विन्ध्य चेतना,सिंगगोली। माध तहमील अतर्गत बंधौरा गंव विधत पाकर स्थानीय महिलाएँ काफी खुरू नजर आई। प्रतिक्षित महिला तारा प्रतिक्षण की समस्त नहीं माना जायेगा और इसके लिए उनके द्वारा तैया महान इनजेंन लिमिटेड के आसमास के गावों में अदाणी फाउंडेशन द्वारा भादव का कहना है कि हान हो में उनके ससह को मैंक से लोन प्राप्त हुआ उत्पादी को डॉसल मूल्य पर किकी के लिए माकेटिंग के संबंध में भी जलावा महिलाओं के अजीविका संवर्धन हेतु विशेष प्रयास किए जा से हैं। अदाणी 👌 और तो लघु स्तर पर अपना पैमा लगाकर अदापी परवंडेशन के सहयेग 🛛 ता रहा है। फाउडेशन द्वारा चलाये जा रहे महिला उद्यमित विकास कार्यक्रम के तहत से इस काम को शह करना चाहती हैं तरीके अपने परिवार के लिए

महिलाएं कैसे स्वयं का बहिए। फड़दर मनकर मॉर्फेट में विकी कर सकती 🛛 हुएआत की पयी है। जिन प्रामीण महिलाओं में शिक्षा का अभाव है एव व्यवस्था के सम्बन्ध में प्रधानमंत्री मुद्रा गोजना की सम्पूर्ण जानकारी दी के मेनोज प्रभाकर एवं उनको टीम के द्वारा विस्तृत जानकारी दी गर्क। ट्रेनिंग - प्रतिदिन को आमदनी सुनिशित नहीं होती तब तक किसी भी रोजनार - संक्रांनी रूप बनाने जैसी ट्रेनिंग दी जा रही है।

ग्रामीण महिलाओं को म्यावलबी बना रहा अटाणी फाउडेशन: आधिक रूप से रूमलोग परिवालें, परिवालों और धेरोलगारों को इस कार्यक्रम में अंदाणी फाउडेटान के द्वारा संदेश दिया गया कि आत्मनिर्भर बनाने के उंदेश्य से अंदाणी फाउडेटान द्वारा कई योजनाओं की लिए वर्मी कम्पोस्ट साह बनाने को तफनीक और तैयिक साट बगाने के तरीके से अलगत कराया जा रहा है। स्थानीय जरूरतमंद महिलाओं को हनसमंद खनाने और रोजावर के अयमर पैदा करने के उद्देश्य से सिलाई प्रशिक्षण केंद्र की मधापना की गई है। अदाणी फाउंडेशन की टीम के मदद

अदाणी फाउंडेशन ने विश्व स्वास्थ्य दिवस पर लगाया स्वास्थ्य जागरूकता कैंप

काल चिंतन कार्यालय

वैढन.सिंगरौली। विश्व स्वास्थ्य को स्वस्थ दिनचर्या और दिवस के मौके पर शुऋवार को माडा तहसील अंतर्गत महान इनर्जेन लिमिटेड से में जानकारी दी। अदाणी प्रभावित गांव नगवा में विश्व स्वास्थ्य दिवस के मौके पर अदाणी फाउंडेशन द्वारा स्थानीय ग्रामीणों को निःशल्क स्वास्थ्य शिविर के मताबिक महान इनर्जेन जरिए जागरूक किया गया। इस कैंप में लिमिटेड से प्रभावित 105 स्थानीय ग्रामीणों ने स्वास्थ्य परीक्षण करवाया, जिनमें अधिकतर महिलाएं और बच्चे थे। इस स्वास्थ्य शिविर में ग्रामीणों के महीनों के दौरान कई जरुरी जांच के साथ रक्तचाप, हीमोग्लोबिन, स्वास्थ्य शिविर का ब्लड शुगर, मलेरिया और ह्रदय रोग की आयोजन किया जा चुका जांच भी की गयी।

इस मौके पर विशेषज्ञ डॉक्टर अभिषेक

मेडिकल टीम ने ग्रामीणों स्वस्थ खान-पान के बारे फाउंडेशन के अधिकारी मनोज प्रभाकार के गांवों में अदाणी फाउंडेशन द्वारा पिछले छह

नगवा गांव की सिंह और डॉक्टर शिखा पांडेय की टीम के सुनीता रजक कहती हैं कि, अदाणी द्वारा उपस्थित ग्रामीणों को अपने स्वास्थ्य फाउंडेशन के माध्यम से हर सप्ताह शहर से को बेहतर बनाने के बारे में बताया गया। विशेषज्ञ डॉक्टर की टीम आती है और हेल्थ स्थानीय निवासी जरूरतमंद ग्रामीणों के हैं।

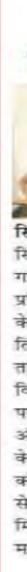


कैंप लगाकर जांच की जाती है इससे समय लिए समय-समय पर निःशुल्क स्वास्थ्य पर ग्रामीणों का निःशल्क चिकित्सा जांच हो सेवा उपलब्ध कराये जाने के लिए अदाणी जाती है और दवाईयां मिल पाती है। फाउंडेशन के प्रयासों की सराहना कर रहे



सिंगरौली 29 मई। माडा तहसील अंतर्गत महान इनर्जेन लिमिटेड के पडोस के गांवों के 35 महिला किसानों को अदाणी फाउंडेशन द्वारा कषि विज्ञान केंद्र वैढन के माध्यम से जैविक तरीके से सब्जी उत्पादन विषय पर एक दिवसीय प्रशिक्षण प्रदान किया गया।

समझाया गया। प्रशिक्षण के उपरांत कृषि इस प्रशिक्षण का उद्देश्य पोषण वाटिका के निर्माण के लिए खेतों विज्ञान केंद्र द्वारा सभी महिला कृषकों को की तैयारी, रोपाई का तरीका, नर्सरी टमाटर एवं भिंडी के बीज वितरित किए लगाने की विधि, फसलों में लगने वाली गए। अदाणी फाउंडेशन ने जैविक सब्जी बीमारियां और उनके उपचार, जैविक उत्पादन को बढावा देने के लिए इस साल दवा बनाना एवं उसका उपयोग करने के लगभग 100 वर्मी कंपोस्ट बेड बनाने का बारे में विस्तुत जानकारी देना है। इस लक्ष्य रखा गया है। प्रशिक्षण के एक दिन सम्बन्ध में स्थानीय महिला किसानों को उपरांत प्रशिक्षित महिलाओं के बीच



अदाणी फाउंडेशन ने जैविक खेती पर दिया जोर, प्रशिक्षित महिला किसानों को बांटे किट

व कोटनाशक और एक किलो वर्मी कंपोस्ट खाद का पैकेट दिया गया। अदाणी फाउंडेशन द्वारा ऑर्गेनिक खेती को बढावा देने के लिए एक मुहिम चलाई जा रही है जिसके माध्यम से ग्रामीण इलाकों में बर्मी कंपोस्ट. ऑर्गेनिक कीटनाशक, लिक्विड फर्टिलाइजर, नीमास्त्र, जीवामत जैसी ऑर्गेनिक पद्धति से उत्पादित सामग्री को सस्ते खर्च में गोबर, गौमुत्र एवं हरे पत्तों के सहायता से बनाया जा रहा है। प्रशिक्षण के दौरान अदाणी फाउंडेशन के अधिकारी मनोज प्रभाकर एवं उनकी टीम ने महिला किसानों को बताया कि आज हमारे समाज में तेजी से बढ रही बीमारियों के लिए गलत खान पान विशेष तौर पर जिम्मेदार है।



नि:शुल्क किट वितरित की गयी। जिसमें सब्जियों की सर्वोत्तम किस्म के बीज. जैविक दवा और वर्मी कंपोस्ट खाद थे। 50 महिला कुषकों को वितरित इस किट में करेला, बरबटी, लौकी, भिंडी, धनिया, मिर्ची, टमाटर एवं बैगन जैसे सब्जियों के बीज के साथ ब्रह्मास्त्र. नीमास्त्र, अग्नि अस्त्र जैसे जैविक खाद

विस्तारपूर्वक पावर प्वाइंट प्रेजेंटेशन माध्यम

अदाणी फाउंडेशन का प्रोजेक्ट उत्थान के लिए सिंगरौली जिले में शिक्षा विभाग के साथ अनुबंध



सिंगरौली। माडा तहसील अंतर्गत बंधौरा गांव स्थित महान इनर्जेन लिमिटेड के आसपास के गावों में गुणवत्तापूर्ण बुनियादी शिक्षा लिए प्रतिबद्ध अदाणी फाउंडेशन ने जिला शिक्षा केन्द्र सिंगरौली के साथ उत्थान परियोजना के लिए तौन वर्ष का अनुबंध किया है। इसके तहत आठ ग्राम पंचायतों के 21 शासकीय विद्यालयों में ठोस बुनियादी शिक्षा दिए जाने पर कार्य किया जाएगा। अदाणी फाउंडेशन और जिला शिक्षा केन्द्र के इस साझा अनुबंध के तहत बेहतर शिक्षा के लिए संयुक्त पहल की घोषणा की गई है। इस अनुबंध के माध्यम से दोनों संगठन शिक्षा में सुधार करने के लिए मिलकर काम करेंगे। इस साझा पहल के माध्यम से स्थानीय शिक्षा क्षेत्र में महत्वपूर्ण

सुधार होगा और यह सिंगरौली जिले के छात्रों को उच्चतर शिक्षा के साथ-साथ विभिन्न आवासीय और गैर-आवासीय कार्यक्रमों का लाभ उठाने का अवसर भी प्रदान करेगा। अनुबंध के वक्त सिंगरौली जिला शिक्षा अधिकारी एसबी सिंह, जिला परियोजना अधिकारी जिला शिक्षा केन्द्र राम लखन शुक्ला एवं अदाणी फाउंडेशन के तरफ से मनोज प्रभाकर और अन्य अधिकारी मौजुद थे।अदाणी फाउंडेशन शिक्षा, स्वास्थ्य, कला और विभिन्न सामाजिक क्षेत्रों में सुधार के लिए पहल करता है। इस अनुबंध का मुख्य उद्देश्य आनेवाली पीढी को बेहतर बुनियादी शिक्षा के माध्यम से उनका भविष्य उज्जवल करना है ताकि इस क्षेत्र का आर्थिक विकास के साथ सामजिक विकास हो सके। नगवा, बंधौरा, खैराही, कर्सुआलाल, कर्सुआराजा, रैला, सुहीरा और अमिलिया पंचायतों के 21 शासकीय विद्यालयों में उत्थान परियोजना के शुरू होने से सैकडों छात्र-छात्राएं लाभान्वित होंगे।

Media Coverage

अदाणी फाउंडेशन द्वारा उत्थान कार्यऋम का शुभारंभ

विन्ध्य चेतना,सिंगरौली। माडा तहसील अंतर्गत कसंआराजा गांव स्थित शासकीय माध्यमिक विद्यालय में अदाणी फाउंडेशन दारा शिक्षा के क्षेत्र में प्रोजेक्ट उत्थान कार्यक्रम का शभारंभ किया गया। बंधौरा गांव स्थित महान इनर्जेन लिमिटेड के आसपास के गावों में गुणवत्तापुण बनियादी शिक्षा लिए अदाणी फाउंडेशन प्रतिबद्ध है। इसी कडी में शुऋवार को कर्सआराजा गांव स्थित शासकीय उच्चतर माध्यमिक विद्यालय में कार्यक्रम की शरुआत हई।

इस मौके पर माडा तहसील के उपखण्ड अधिकारी औ बी पी पाण्डेय, जिला परियोजना समन्वयक श्री राम लखन शकल एवं जिला शिक्षा केंद्र के अन्य अधिकारी श्री संदीप दबे, श्री मिठाई लाल पनिका एवं श्रीमती सरिता दबे उपस्थित रहे। जबकि आसपास के 21 शासकीय विद्यालयों के प्रधानाध्यापक, जनप्रतिनिधि के तौर पर आठ पंचायतों के सरपंच और काफी संख्या में ग्रामीणों की उपस्थिति ने इस कार्यक्रम को बेहद सफल बनाया। अदाणी फाउंडेशन के तरफ से मनोज प्रभाकर और जतिन उपाध्याय ने कार्यक्रम का संचालन किया। उपखण्ड अधिकारी श्री बी पी पाण्डेय ने सम्बोधित करते हुए कहा कि अदाणी फाउंडेशन का यह प्रोजेक्ट प्रशंसनीय है। जिला परियोजना समन्त्रयक श्री राम लखन शक्ल ने इसका फायदा बताते हुए भरोसा दिलाया कि शिक्षा विभाग की ओर से अदाणी फाउंडेशन के इस कार्यक्रम के संचालन में पूरी मदद की जाएगी।

अदाणी फाउंडेशन ने जिला शिक्षा केन्द्र, सिंगरौली के साथ उत्थान परियोजना के लिए आगामी तीन वर्षों (2023-2026) के लिए प्राथमिक एवं माध्यमिक विद्यालयों में मुलभूत साक्षरता और अंकज्ञान अवधारणा (राष्ट्रीय शिक्षा नीति 2020) को प्रोत्साहन देने के लिए अनबंध किया गया है। इसके तहत आठ ग्राम पंचायतों के 21 शासकीय विद्यालयों में टोस बुनियादी शिक्षा दिए जाने करना है ताकि इस क्षेत्र का आर्थिक विकास के साथ कोशिश किया जा रहा है।



पर कार्य किया जाएगा। अदाणी फाउंडेशन और जिला शिक्षा सामजिक विकास हो सके। नगवा, बंधौरा, खैराही केन्द्र के इस साझा अनुबंध के तहत बेहतर शिक्षा के लिए कर्सुआलाल, कर्सुआराजा, रैला, सहीरा और अभिलिया से दोनों संगठन शिक्षा में सुधार करने के लिए मिलकर के शुरू होने से सैकडों छात्र-छात्राएं लाभान्वित होंगे। काम करेंगे। इस साझा पहल के माध्यम से स्थानीय शिक्षा इसके लिए अदाणी फाउंडेशन दारा स्थानीय शिक्षित यवाओं क्षेत्र में महत्वपूर्ण संधार होगा और यह सिंगरौली जिले के को प्रशिक्षित कर सभी विद्यालयों में एक शिक्षक नियक्त छत्रों को उच्चतर शिक्षा के साथ-साथ विभिन्न आवासीय किया जायेगा जिससे विद्यार्थियों को गणवत्तापण बनियादी और गैर-आवासीय कार्यक्रमों का लाभ उठाने का अवसर शिक्षा मिल सके। अदाणी फाउंडेशन द्वारा लगातार प्रोजेक्ट भी पटान करेगा

सामाजिक क्षेत्रों में सुधार के लिए पहल करता है। प्रोजेक्ट लिए कौशल विकास कार्यक्रम, आधारभुत सरचना के उत्थान का मुख्य उद्देश्य आनेवाली पीढी को बेहतर निर्माण में सहयोग और विभिन्न खेल प्रतियोगिताओं के बुनियादी शिक्षों के माध्यम से उनका भविष्य उज्जवल माध्यम से युवाओं को राष्ट्र निर्माण में आगे लाने की

संयक्त पहल की घोषणा की गई है। इस अनबंध के माध्यम 🛛 पंचायती के 21 शासकीय विद्यालयों में उत्थान परियोजना के आसपास के गांवों में स्वास्थ्य शिविर, महिला उद्यमिता अदाणी फाउंडेशन शिक्षा, स्वास्थ्य, कला और विभिन्न जगरूकता कार्यक्रम, स्थानीय यवाओं एवं यवतियों के

अदाणी फाउंडेशन का प्रोजेक्ट उत्थान के लिए सिंगरौली जिले में शिक्षा विभाग के साथ अनुबंध



सिंगरौली। माडा तहसील अंतर्गत बंधौरा गांव स्थित महान इनर्जेन लिमिटेड के आसपास के गावों में गुणवत्तापूर्ण बुनियादी शिक्षा लिए प्रतिबद्ध अदाणी फाउंडेशन ने जिला शिक्षा केन्द्र सिंगरौली के साथ उत्थान परियोजना के लिए तौन वर्ष का अनुबंध किया है। इसके तहत आठ ग्राम पंचायतों के 21 शासकीय विद्यालयों में ठोस बनियादी शिक्षा दिए जाने पर कार्य किया जाएगा। अदाणी फाउंडेशन और जिला शिक्षा केन्द्र के इस साझा अनुबंध के तहत बेहतर शिक्षा के लिए संयुक्त पहल को घोषणा की गई है। इस अनुबंध के माध्यम से दोनों संगठन शिक्षा में सुधार करने के लिए मिलकर काम करेंगे। इस साझा पहल के माध्यम से स्थानीय शिक्षा क्षेत्र में महत्वपूर्ण

सुधार होगा और यह सिंगरौली जिले के छात्रों को उच्चतर शिक्षा के साथ-साथ विभिन्न आवासीय और गैर-आवासीय कार्यक्रमों का लाभ उठाने का अवसर भी प्रदान करेगा। अनुबंध के वक्त सिंगरौली जिला शिक्षा अधिकारी एसबी सिंह, जिला परियोजना अधिकारी जिला शिक्षा केन्द्र राम लखन शक्ला एवं अदाणी फाउंडेशन के तरफ से मनोज प्रभाकर और अन्य अधिकारी मौजुद थे।अदाणी फाउंडेशन शिक्षा, स्वास्थ्य, कला और विभिन्न सामाजिक क्षेत्रों में सुधार के लिए पहल करता है। इस अनुबंध का मुख्य उद्देश्य आनेवाली पीढी को बेहतर बुनियादी शिक्षा के माध्यम से उनका भविष्य उज्जवल करना है ताकि इस क्षेत्र का आर्थिक विकास के साथ सामजिक विकास हो सके। नगवा, बंधौरा, खैराही, कर्स्आलाल, कर्स्आराजा, रैला, सुहीरा और अमिलिया पंचायतों के 21 शासकीय विद्यालयों में उत्थान परियोजना के शुरू होने से सैकडों छात्र-छात्राएं लाभान्वित होंगे।

योग दिवस के अवसर पर अदाणी फाउंडेशन द्वारा आयोजित कार्यऋमों में पर बच्चों ने बढ़-चढ़ कर लिया हिस्सा

काल चिंतन कार्यालय

वैढन,सिंगरौली। अंतर्राष्ट्रीय योग दिवस के मौके पर अदाणी फाउंडेशन के तरफ से सर्र्ड तहसील अन्तर्गत बासी बेरदहा और खनआ गांव स्थित शासकीय विद्यालयों में और माडा तहसील अंतर्गत नगवा गांव में कई कार्यक्रम आयोजित किये गए। स्ट्रैटाटेक मिनरल रिसोर्सेज प्राइवेट लिमिटेड और महान इनर्जेन लिमिटेड के सहयोग से आयोजित इन कार्यक्रमों में 200 से ज्यादा छात्र-छात्राओं और 30 शिक्षकों ने हिस्सा लिया। योग शिविर का मख्य उद्देश्य ज्यादा से ज्यादा लोगों को योग से जोडना और योग के माध्यम से उनको शारीरिक रूप से स्वस्थ करना है।

इस मौके पर अदाणी समह द्वारा संचालित विद्यालय सरस्वती शिशु मंदिर के शिक्षक श्री नरेंद्र गुप्ता एवं दूसरे शिक्षकों ने अदाणी शांतिगराम कॉलोनी एवं अदाणी पनवांस कॉलोनी, नगवा में अलग-अलग समय पर योग प्रशिक्षण का कार्यक्रम आयोजित कर अपनी महत्वपर्ण भूमिका निभाई। योग दिवस के कार्यक्रम के सफल आयोजन में अदाणी प्रबन्धन के मनोज



प्रभाकर, राकेश कुमार, देवाशीश दास, विकास, कृष्णा कुमार, ऋभ पांडे, विमल कुमार, सनत गुप्ता, कमलेश, सरिता, सत्यवती एवं सरस्वती शिश मंदिर विद्यालय नगवा के सभी शिक्षक एवं शिक्षिकाओं का महत्वपूर्ण योगदान रहा।

योग दिवस मनाने का मकसद स्पष्टतौर पर सेहत से जुड़े इसके फायदों को उजागर करना और सभी को अपनी सेहत देखते हुए योगा करने के लिए प्रेरित करना है। योगा सेहत को दरुस्त रखती है और रोगों के खतरे को कम करती है। सभी उम्र के लोग योगा कर सकते हैं। योगा करने पर तनाव से मुक्ति मिलती है और नियमित रूप से योगा की जाए तो मानसिक और शारीरिक तौर पर भी आराम महसुस होता है। आमतौर पर हडि़्यों और मांसपेशियों के दर्द को दर करने के लिए लोग योगा करते हैं। दिल की सेहत अच्छी रखने के लिए भी योगा की जाती है। अदाणी फाउंडेशन द्वारा सिंगरौली जिला के सरई और माडा तहसील के सुदुर गांवों में बेहतर स्वास्थ्य के लिए समय-समय पर जागरूकता शिविर का आयोजन किया जाता है। पिछले महीने ही मिशन लाइफ और पर्यावरण के अनुकुल

जीवन शैली के विषयों पर ग्रामीण महिलाओं को जागरूक किया गया। इसके अलावा कुपोषण को दूर करने के लिए अदाणी फाउंडेशन द्वारा अक्टबर और नवम्बर 2022 में पोषण माह का आयोजन किया गया था। अदाणी फाउंडेशन द्वारा स्ट्राटाटेक मिनेरल रिसोर्सेस प्राइवेट लिमिटेड और महान इनर्जेन लिमिटेड के सहयोग से प्रोजेक्ट के आसपास के गांवों में लगातार निःशुल्क स्वास्थ्य शिविर का आयोजन किया जाता है ताकि काफी संख्या में स्थानीय किशोरियां, महिलाऐं, बच्चे और आमलोग लाभान्वित हो सके।

पौधारोपण को बढ़ावा दे रहा अदाणी फॉउंडेशन, शुरू हुआ वृक्ष से विकास कार्यऋम

हीरावती सिंगरोली। मडा तहसील अंतर्गत बंधौरा स्थित महान इनर्जेन लिमिटेडके वडोस के गांवों में अदाणी फाउंडेशन दारा चलाए जा रहे कार्यक्रम % वश्व से विकास % के अहत शनिवार को महिला स्वयं सहायता समहों के बीच फलदार एवं छावादार पौधों का वितरण किया गया। कर्सआलाल गांव में आयोजित एक कार्यक्रम में स्थानीय सरपंच श्री अंजनी कुमार प्रजापति की उपस्थिति में 300 पौधों का वेतरण कर कार्यक्रम का शुभारभ किया गया। अदाणी गरुप ने साल 2030 तक 100 मिलियन यानी 10 करोड़ पौधे लगाने का संकल्प लिया है, जिसमेंसिंगरौली जिले पर भी वेशेष ध्यान दिया जायेगा। लगाए गए फलदार वौधों में ज्यादातर आम, अमरुद, कटहल और जामन के पेड हैं।

अदाणी फाउंडेशन द्वारा आयोजित नौधारोपण और पर्यावरण संरक्षण के इस कार्यक्रम के दौरान ना सिर्फ पौधे वितरित किये गए बल्कि पौधे को जीत्रित एवं सरक्षित रखने

२०० पशुओं का निःशुल्क टीकाकरण कर दी गयी दवाइयां

सरपंच मस्ताक अहमद को उपस्थिति ने कार्यक्रम को मपल बनाया। अदाणी कामधेन कार्यज्ञम का मुख्य उद्देश्य पश्च चिकित्सा चिभाग की टीम क लाव मिलकर निःशुल्क पण स्वास्थ्य शिविर लगाने एवं ग्रामीण स्टर पर ही पत्रओं के सम्पूर्ण स्वास्च्य को जांच के उपरान्त उपचार प्रदान करना है।

इसके साथ ही पश टीकाकरण दुग्ध उत्पादन एवं पत्र प्रबंधन के पति पशुपालकों को जागरूक बनाकर उनकी धमताओं का विकास करना हैए जिससे दण्ध उत्पादन में चडि के साथ कुषकों और पश्चपालकों को आम में मी बरोतरी संभव हो सके। इस मौळे पर उपस्थित याम पंचायत सेराही के संस्थेच महत्वाक शहमद ने कहा किए बरसात के दिनों में प्रणाओं में सचा संक्रमित बॉम्सरियों का खतरा बढ़ जाता हे और ऐसे में अदाणा फाउंडेशन का यह पहला काफी संसाहनीय है। बरसाल के मीसम में आदता बंद जाती है जिससे जीवाणुओं को पनपने के लिए उपयुक्त वातावरण मिल जाता है। पश्चा में गलाबोट्ट सेप्टिसोमिया लगना बुखार ब्लेक कार्टर और खरण्का च मुहपका रोग फ ट एंड माउथ डिजाज जैसी भीभारियों का स्वतर। यह जाता है।



संख्या में मख्य रूप से बकरों गांग बेल और भैंस लंकर पहुंचे जहां परा चिंफला विभाग को रोम द्वारा जांच के उपरान्त निःशल्क दयाई के साथ आवध्यक सलाह दिए गए। उन्होंने पशपालकों को संझाव दिया कि पश्चओं का समय समय पर उनके खाने-पीने रहन-सारनं का परा ध्यान रखना चात्रिए। अगर हम पराओं को परी तरह स देखभाल करेंगे तथा समय पर देखहुए पश आहार देने रहेंगे तो उनके सेंगग्रस्त होने के खतम को टाला जा सकता है साथ ही दुध का उत्पादन बहेगा और पशपालकों की आमदनी में डजाफ रोगा। अयाणी कामधेन कार्यक्रम के उद्घोटन समारात में अदाणी फर्वडेशन के मनोज प्रभावन एवं साथ पंचायत खेराही के

अदाणी फाउंडेशन द्वारा कामधेन कार्यक्रम के तहत पशु चिकित्सा एवं गणिरूकत शिविर का आयोजन

जागरण, चंदन। माडा तहसाल अंतर्गत महान इनर्चेन लिमिटेड के पहोस के गावों में पश्रओं की चिकित्सा और देखभाल के महेतवर अद्यणी फउंडेशन दारा कामधेन कार्यक्रम को जुरुआत की गया है। बेहतर प्रबंधन से पश्चधन को अधिक लाभकारी बनाया जा सकता है। आज साम पंचापत खेराती में आयोजित निःजल्क पण चिकित्या शियिर में पश्चपालन विभाग सिंगरीली 🗼 स्वतयोग में लगभग 200 प्रश्नों का निःशल्क टीकाकरण कर आवश्यक दवाईयां दी गयी। इस जितिर में प्रशुपालन विभाग के चिकित्सा अधिकारी र्वा रचिद्व जाचसवाल एवं ठनके जह सदस्यीय रोम मीजद थे। इस पश चिफित्मा शिविर में आसपास के गांव के पश्चपालक काफी

पिछले कछ महीने में अदाणी फप की पर्यावरण एवं सीएसआर टीम के द्वारा ग्रामीण क्षेत्रों में जनजागरूकता के ऐसे कई आयोजन कराए गए हैं, जिससे लोग पर्यावरण के अनकल व्यवहार करने केलिए प्रेसि हो सकें। 20 मई को आयोजित एकशिविर में प्राकृतिक संसाधनों के सावधानीपूर्वक उपयेग के लिए प्रोत्साहित किया गया। इस शिविर में % मिशन लाइफ% और पर्यावरण के अनकल जीवन जिससे वातावरण में वायु शुद्ध बनी रहती है। शैली के विषयों पर ग्रामीण महिलाओं को जागरूक किया गया। क्षेत्र में जैव विविधत संरक्षण के महत्व और प्लास्टिक प्रदेषण के विनाशकारी परिणामों के बारे में जाररूकता को बतावा देने और एक स्थायी जीवनशैलं अपनाने के लिए प्रेरित करने के उद्देश्य से इस पर्यावरण और विकास से सम्बन्धित क्षेत्रों में तरह के कार्यक्रम पुरे वर्ष स्थानीय विद्यालयों पंचायती संस्थानों, स्थानीय स्वास्थ्य केंद्रों एव ग्रामीणों ने अञ्चणी फाउंडेशन के पौधारोपण ग्रामीण बाजारों जैसे सार्वजानिक स्थानों पर कार्यक्रम में अपना योगदान देते हुए इसका आयोजित किए जाएंगे।

तेजी से फैल रहे उद्योगों और बढती जोरदार स्वागत किया है। आबादी के कारण प्रदेषण का स्तर इन दिनों बहत अधिक बढ रहा है। इससे लडने का एकमात्र तरीका अधिक से अधिक पेड लगाना है। अगर हम सचमुच स्वस्थ रहना चाहते हैं और बेहतर जोवनयापन करना चाहते हैं तो ज्यादा से ज्यादा पौधे लगाए जाने चाहिए। ऑक्सीजन लेने और कार्बन डाइऑक्साइड को छोडने के साथ पेड-पौधे पर्यावरण से अन्य हानिकारक गैसों को अवशोषित करते हैं अदाणी फाउंडेशन द्वारा सामुदायिक स्थलों पर पौधारोपण पर जोर देने का मकसद जह समाज के विभिन्न समदायों के बीच पर्यावरण के प्रति जागरूकता लना है, वहीं विभिन्न विद्यालयों में पौधारोपण का उद्देश्य स्कली बच्चों को निर्णय लेने में भागीदार बनाना है। स्थानीय



महिला स्वयं सहायता समुहों, स्कूली बच्चों और गांव के सापंच सहित अन्य स्थानीय स्थित महान इनर्जेन ऐसिटेड के आसपास के ग्रामीणों को जोडने की योजना है। अदाणी फाउंडेशन द्वारा हाइब्रिड बीज से तैयार पौधा ज्यादा से ज्यादा पौधारोपण एवं संरक्षण पर जेर पाकर स्थानीय महिलाएं काफी खुश नजर 3 राई।

के उपायों के बारे में भी लोगों को प्रशिक्षित किया गया। आगामी 15 दिनों तक बंधौरा गांवों में यह कार्यक्रम चलाया जाएगा और दिया जाएगा। इस अभियान से मुख्य तौर पर

Media Coverage

अदाणी फाउंडेशन द्वारा कामधेनु कार्यऋम के तहत पशु चिकित्सा एवं जागरूकता शिविर का आयोजन

के उपरान्त उपचार प्रदान करना है। इसके साथ ही पशु टीकाकरण, दुग्ध उत्पादन एवं पशु प्रबंधन के प्रति पशुपालकों को जागरूक बनाकर उनकी क्षमताओं का विकास करना है, जिससे दुग्ध उत्पादन में कृद्धि के साथ कुषकों और पशुपालकों की आय में भी बरीतरी संभव हो सके। इस मौके पर उपस्थित ग्राम पंचायत खैराही के सरपंच मुस्ताक अहमद ने कहा कि, +बरसात के दिनों में पशुओं में सभी संक्रमित बीमारियों का खतरा ब? जाता है और ऐसे में

अदाणी फाउंडेशन का यह पहल काफी सराहनीय है।+ बरसात के मौसम में आदता ब? जाती है जिससे जीवाणओं को पनपने के लिए उपयुक्त वातावरण मिल जाता है। वही पशुओं में गलापोंट् (सेप्टिसीमिया), लंग/र ब्खार (ब्लैक क्राटंर) और खुरपका व मुंहपका रोग (फट एंड माठ्य डिनीज) जैसी बीमारियों का खतरा ब? जाता है। अदाणी फाउंडेशन द्वारा इस क्षेत्र पशुपालकों के लिए कई निऱ्शुल्क पशु चिकित्सा और टीकाकरण शिविर का आयोजन किया जा चुका है और अब अदाणी कामधेन कार्यक्रम के माध्यम से आगे भी आसपास गांवों में ऐसे शिविर लगाए जायेंगे।



अगर हम पशुओं को पूरी तरह से देखभाल करेंगे तथा समय पर दवाई, पशु आहार देते रहेंगे तो उनके रोगप्रस्त होने के खतरा को टाला जा सकता है साथ ही दूध का उत्पादन बरेगा और पशुपालकों की आमदनी में इजाफा होगा। अदाणी कामधेनु कार्यक्रम के उदाटन समारोह में अदाणी फाउंडेशन के मनोज प्रभाकर एवं ग्राम पंचायत खैराही के सरपंच मुस्ताक अहमद को उपस्थिति ने कार्यक्रम को सफल बनाया। अदाणी कामधेन कार्यक्रम का मरूप उद्देश्य पश चिकित्सा विभाग को टोम के साथ मिलकर निज्ञुल्क पशु स्वास्थ्य शिविर लगाने एवं ग्रामोण स्तर पर ही पशुओं के सम्पूर्ण स्वास्थ्य को जांच

ओम प्रकाश तिवारी, ब्यूरी चीफ ।

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उञ्जवल न्यूज सिंगरौली। माडा तहसील अंतर्गत महान इनजैन लिमिटेड के प्रीम के गांवों में पशुओं को चिकित्सा और देखभाल के महेनजर अदाणी फाउंडेशन हारा कामधेन कार्यक्रम को शुरुवात की गयी है। बेहतर प्रबंधन से पशुधन को अधिक लाभकारी बनाया जा सकता है। शुक्रवार को ग्राम पंचायत खैराही में आयोजित निऱ्युल्क परा चिकित्सा शिविर में पशुपालन विभाग,

सिंगरौली के सहयोग से लगभग 200 पशुओं का निऱ्तुल्क टीकाकरण का आवश्यक दवाईयां दी गयी। इस शिबिर में पशुपालन विभाग के चिकित्सा अधिकारी डौँ रविंद्र जायसवाल एवं उनके छह सदस्यीय टीम मौजुद थे। इस पशु चिकित्सा शिविर में आसपास के गांव के पशुपालक काफी संख्या में मुख्य रूप से बकरी, गाय, बैल और भैंस लेकर पहुंचे, जहां पश चिकित्सा विभाग की टीम द्वारा आंच के उपरान्त निऱ्यूल्क दवाई के साथ आवश्यक सलाह दिए गए। उन्होंने पशुपालकों को सुझाव दिया कि पशुओं का समय-समय पर उनके खाने-पोने, रहन-सहन का पुरा ब्यान रखना चाहिए।

पर्यावरण के प्रति जागरूक जीवन शैली अपनाने के लिए अदाणी फाउंडेशन ने शुरू की मुहिम

पकते हैं। शिविर के दौरान जिन खास बिंदओं पर चर्चा की गयी वो है - ऊर्जा बच्चओ, जल संचय एवं उसका बचाव, सिंगल यज प्लारिटक का पयोग न करें, बेहतर खानपान एवं उससे होनेवाले वाले लाभ, घरों एवं कार्य क्षेत्रों में बेकार एवं अपशिष्ट पदार्थों का सरक्षित निपटान कैसे करें. स्वस्थ जीवन शौली कैसे बनाएं एवं बढते इलेक्ट्रॉनिक उपयोग एवं उसके अपशिष्ट को कैसे कम करें इत्यादि। उपस्थित ग्रामीणों से पर्यावरण जागरूकता से संबंधित कई सवाल भी पछे गए एवं सकारात्मक जवाब देने काले ग्रामीण महिलाओं को जट का बैंग देकर सम्मानित किया गया। अदाणी फंप की पर्यावरण एवं सीएसआर टीम के इस अगले 5 जन तक जनजागरूकता के ऐसे आयोजन कराए जाएंगे जिससे लोग पर्यावरण के अनकल व्यवहार करने के लिए प्रेरित हे सकें।



कमारी की उपस्थिति में इस जागरूकता कार्यक्रम वताया गया कि कैसे लोग अपने जीवन शैली में

को सफलतापर्वक संचालित किया गया। शिविर में छोटा सा बदलाव कर पर्यावरण को सरक्षित रख

गड मॉनिंग, सिंगरौली। जिले के माडा तहमील अंतर्गत महान इनजेन लिमिटेड के पड़ोस के गांवों के लिए नगवा स्थित पनवांस कॉलोनी में मिशन लाइफ पर जागरूकता शिविर का आयोजन किया गया। अदाणी फाउंडेशन द्वारा संचालित स्किल डेवलपमेंट केंद्र में शनिवार को आयोजित इस शिविर में काफी संख्या में स्थानीय महिलाए तपस्थिति हुई। इस दौरान मिशन लाइफ और पर्यावरण के अनुकुल जीवन शैली के विषयों पर ग्रामीण महिलाओं को जागरूक किया गया।

अदाणी म्हप की पर्यावरण विभाग और अदाणी फाउंडेशन द्वारा आयोजित इस शिविर में प्राकृतिक संसाधनों के सावधानीपर्वक उपयोग के लिए प्रोतसाहित किया गया। अदाणी म्हप की ओर से पर्यावरण अधिकारी श्री संतोष कमार, अदाणी फाउंडेशन के अधिकारी मनोज प्रभाकर एवं उनके सहयोगी विकास राय, प्रयामा कष्णन शाह, कमलेश



फुटबॉल में फाटपानी, क्रिकेट

में सरई की टीम बनी चैंपियन

अदाणी फाउंडेशन ने किया खेल प्रतियोगिताओं का आयोजन

की मदद से क्रिकेट टर्नामेंट का भी आखेजन अर्मा ने फटबॉल टर्नामेंट के विजेताओं को किया गया। जिसमें सरई, गजरा बहरा, जमगढ़ी टॉफी प्रदेन की। फुटबॉल प्रतियोगिता के सरहं तहसील अंतर्गत बर्दिया डोल गांव में और भलैया टोला गांव के खिलाडियों ने आयोजन में फाटपानी गांव के धर्मराज एवं अदाणी फाउंडेशन के सहयोग से गुरुवार को हिस्सा लिया। फाइनल युक्सबले में सरहं की स्थानीय ग्रामीणों का प्रमुख योगदान रहा। फुटबॉल प्रतियोगित का आयोजन किया गया। टीम ने जनगढी को टीम को परास्त कर विजयी क्रिकेट टुर्नामेंट के आयोजन को भलैया टोला इस प्रतियोगिता में कुल चार गांव फाटपानी, ट्रॉफो पर कव्वा जमाया। अदाणी फाउंडेशन के मोट्र, कुष्णा, पृष्पराज शर्मा एवं लल्लुराम नगवा, पेडखडी और पोढीपाठ के कुल 44 के तरफ से विजेता और उपविजेता टीमों को शर्मा ने सहयौग के द्वारा केंद्र खिलाडियों में हिस्स लिया। फाइनल मैच में टॉफी देकर सम्मनित किया गया। इसके साथ सफल बनाया। जत हो कि अंदाणी फाउंडेशन फाटपानी की टीम ने पेडरवड़ी की टीम को बेहद ही फटबॉल और क्रिकेट किट प्रदान कर की टीम के हुए लगातार प्रामीण क्षेत्रों में भूमग रोमांचक मुकाबले में पेनाल्टी शटआउट के उनका उत्साहवर्धन किया गया। इस मौके पर कर युवाओं, बच्चों एवं महिलाओं को विकास

जॉरए 2.0 से शिकस्त दी। अदाणी फाउंडेशन खनुआ खास के पंचायत सचिव विश्वकर्मा कार्यों से जोड़ा जा सा है।

मस्कर न्यज्ञ सिफॉली (येदन)

स्वास्थ्य शिविर में 80 महिलाओं का उपचार

अदाणी फाउंडेशन ने किया निःशुल्क महिला स्वास्थ्य शिविर का आयोजन

गयी। इस मौके पर डॉक्टर ऐशानी और उनके सहयोगी ज्योति कमारी के द्वारा मासिक धर्म से सम्बन्धित समस्याओं और माहवारी स्वास्थ्य से सम्बन्धित विस्तत जानकारी दी गई और सैनिटरी पैड के इस्तेमाल के फायदे से अवगत कराया गया। स्वच्छता और सफ ाई महिलाओं की निजता गरिमा और आत्मसम्मान से जुड़ा हुआ महत्वपूर्ण मदा है और इस अभियान को सफल बनाने में महिलाओं की भागीदारी अनिवार्य है। कार्यक्रम में उपस्थित स्थानीय महिलाएँ समित्रा साकेत, मुन्नी नाई ममता शर्मा, इंद्रकली शर्मा .सषमा विश्वकर्मा, ज्योति कमारी, कमलेश साकेत एवं सत्यकमारी के द्वारा इस तरह के स्वास्थ्य शिविर के आयोजन के लिए अदाणी फाउंडेशन की सराहना की गई।



मलेरिया की जाँच भी की गई और ग्रामीणों को स्वस्थ दिनचर्या खान.पान के बारे में जानकारी दी गई । आसपास के गांवों से पहुंचे मरीजों के अलावा गर्भवती महिलाओं की स्वास्थ्य परीक्षण कर उनका हीमोग्लोबिन जांच किया गया और आवश्यक दवाइयां दी

के द्वारा नि:शुल्क महिला स्वास्थ्य शिविर का आयोजन किया जायेगा जिसमें विशेषज्ञ चिकित्सकों की रीम अपनी सेवाएं देंगी। इस दौरान डॉक्टर ऐशानी के नेतत्व में मेडिकल टीम के द्वारा मरीजों के आवश्यक जांच के माध माध रक्तचाप हीमोग्लोबिन ब्लड शुगर और

नवभारत न्यूज

सिंगरौली 25 अगस्त । माडा तहसील अंतर्गत बंधौरा स्थित महान उनर्जेन लिमिटेड के पडोस के गांवों की स्थानीय महिलाओं और किशोरियों की नियमित स्वास्थ्य जांच के उद्देश्य से नगवा गांव स्थित पुनर्वास कॉलोनी में अदाणी फ ाउंडेशन द्वारा संचालित स्वास्थ्य केंद्र में गुरुवार को चिकित्सा शिविर का शुभारंभ किया गया। इस विशेष स्वास्थ्य जांच शिविर में आसपास के गांवों की कल 80 महिलाओं ने स्त्री रोग से संबंधित बीमारियों के लिए चिकित्सकीय परामर्श लिया।

समाज में फैली मासिक धर्म सम्बन्धी गलत अवधारणाओं को दर करने के साथ ही महिलाओं और किशोरियों को माहवारी प्रबंधन सम्बन्धी सही जानकारी देने के उद्देश्य से अब हर महीने के 20 तारीख को अदाणी फाउंडेशन