

Ref: CPP/ENV/UML/EC/MOEF/25-26/05

Dated: 30.05.2025

To  
DDG,IFS,  
Ministry of Environment, Forest and Climate Change, Integrated Regional Office,  
2nd Floor, Headquarter- Jharkhand State Housing Board,  
Harmu Chowk, Ranchi, Jharkhand – 834002, Ranchi

Email: [ro.ranchi-mef@gov.in](mailto:ro.ranchi-mef@gov.in)

**Subject: Submission of half yearly Compliance report of Conditions stipulated in EC granted to our 2X10 MW CPP at USHA MARTIN LIMITED, Tatisilwai, Ranchi for the period Oct'24 to March'25**

Ref.: EC letter no: J-13012/122/2008-1A.II (T) dated 07-04-2011

Dear Sir,

We are herewith submitting the half yearly Compliance report of Conditions stipulated in EC granted to our 2X10 MW Captive Power Plant, M/s USHA MARTIN LIMITED, Tatisilwai, Ranchi for the period Oct'24 to March'25 for your kind perusal and reference.

Thanking you and best regards,

Yours faithfully,  
For Usha Martin Ltd., Ranchi

  
Authorized Signatory



**Encl: Six monthly compliance Report**

**USHA MARTIN LIMITED**

CIN : L31400WB1986PLC091621



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	<b>Captive Power Plant</b> 2X10 MW CPP, Tatisilwai Ranchi	Environmental Clearance
		MOEF Letter No.: J-13012/122/2008-1A.II(T) dated 07-04-2011
		Compliance status as on : 31. 03. 2025
		Period : <b>Oct'24 to March'25</b>

Environmental Clearance Compliance Report (Period: Oct'24 to March'25)

**Sub: Six monthly EC compliance report pertaining to 2X10MW Coal based Captive Thermal Power Plant at village Tatisilwai in Ranchi Dist., in Jharkhand**

With reference to the subject mentioned, please find the compliance status of conditions stipulated in EC granted to our 2X10MW CPP vide letter no.- J-13012/122/2008-1A.II(T) dated 07-04-2011 and EC amendment letter no.- J-13012/122/2008-1A.II(T) dated 09.10.2019 & 13.05.2020

SPECIFIC CONDITIONS

A.	Specific Conditions:	Status
(i)	Road transportation of coal shall be permitted for a limited period of 36 months only. The project proponent shall shift to railway transportation thereafter. The project proponent shall be vicariously responsible for liabilities incurred for road transportation such as accidental damages to public, coal fines emission from transporting trucks etc. The project proponent shall immediately start its action plan for rail transportation with consultation with the Railways and shall submit half yearly action taken report to the Ministry on the matter.	<ul style="list-style-type: none"> <li>• The MoEF&amp;CC has issued EC amendment vide letter dated 13.05.2020 &amp; 09.10.2019 and accords Permission to transport coal by road-copy attached as annex-1</li> <li>• As per Ministry's OM dated 27/29-10-2020 &amp; 11-11-2020, we are transporting the coal by road under intimation to the Ministry.</li> <li>• Information regarding proposed coal procurement for FY24-25 is attached as Annex 1a</li> <li>• We have executed FSA with CCL under NRS linkage for supply coal to CPP -Details are attached as Annex 1b</li> </ul>

Environment Dept. 2X10 MW CPP. Ranchi



(ii)	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm <sup>3</sup> . Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	<ul style="list-style-type: none"> <li>Complied.</li> <li>High Efficiency Electrostatic Precipitators (ESPs) has been installed</li> <li>Provided Bag filters and static water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable areas.</li> </ul>
(iii)	Sulfur and ash contents in the coal to be used in the project shall not exceed 0.5 % and 34 % respectively at any given time. In case of variation of coal quality at any point of time fresh reference shall be made of MoEF for suitable amendments to environmental clearance condition wherever necessary.	<ul style="list-style-type: none"> <li>An Amendment to use 41.7% ash has been issued vide letter No-J-13012/122/2008-1A.II(T) on Dated 09.10.2019</li> <li>Complied.</li> <li>Coal analysis report is attached for ref. Annex-2</li> </ul>
(iv)	Stack of 70 m height shall be installed and provided with continuous online monitoring equipment's for Sox, Nox and PM <sub>2.5</sub> and PM <sub>10</sub> . Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack may also monitored on periodic basis.	<ul style="list-style-type: none"> <li>Complied</li> <li>Online stack monitoring and continuous ambient air quality monitoring equipment has been installed &amp; connected to JSPCB/CPCB server. Completion certificate attached as <u>Annex-3 &amp; 4</u></li> <li>Exit velocity of flue gas is maintained. Mercury emission from stack has been checked on periodic basis. Current report is attached. (Annex-2A)</li> </ul>
(v)	Existing de-generated water bodies (if any) in the study area shall be regenerated at the project proponent's expenses in consultation with the state Govt.	<ul style="list-style-type: none"> <li>There are no de-generated water bodies in the study area of CPP.</li> </ul>
(vi)		



	Water requirement for running the plant shall be met from harvested rainwater and no ground water shall be extracted for the purpose.	<ul style="list-style-type: none"> <li>Water requirement for the project is met from the existing water commitment of WWR.</li> <li>Rain water harvesting system has been established.</li> <li>No ground water is extracted.</li> </ul>
(vii)	Hydro-geological status (quality and quantity) of ground water shall be reviewed annually from an institute/ organization of repute to assess impact of surface water and ground regime (especially around ash dyke). In case and deterioration is observed specific mitigation measures shall be undertaken and reports/ date of water quality monitored regularly and maintained shall be submitted to the Regional Office of the Ministry.	<ul style="list-style-type: none"> <li>Complied.</li> </ul>
(viii)	Source of water for meeting the requirement during lean season shall be specified and submitted to the Regional Office of the Ministry within three months.	<ul style="list-style-type: none"> <li>Source of water for the project is River Subarnarekha.</li> <li>We have already installed Rainwater harvesting system, so that the requirement of water can be met from Rainwater to a large extent in lean season.</li> </ul>
(ix)	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.	<ul style="list-style-type: none"> <li>Complied.</li> </ul>
(x)	COC of 5.0 (as may be applicable) shall be adopted.	<ul style="list-style-type: none"> <li>Complied.</li> </ul>
(xi)	A well designed rain water harvesting shall be put in place before commissioning of the plant. Central groundwater Authority/Board shall be consulted for finalization of appropriate rainwater harvesting technology/design within a period of three months from the date of this clearance and details shall be furnished.	<ul style="list-style-type: none"> <li>Complied</li> <li>Approval by Ground water division, Jharkhand &amp; completion certificates are attached as <b>Annex-5 &amp; 6</b></li> </ul>
(xii)	The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed. A	<ul style="list-style-type: none"> <li>ETP &amp; STP of latest technology have been installed &amp; treated effluent is being re-used.</li> </ul>



	Captive Power Plant 2X10 MW CPP, Taisilwai Ranchi	Environmental Clearance MOEF Letter No.: J-13012/122/2008-1A.11(T) dated 07-04-2011 Compliance status as on : 31. 03. 2025 Period : <b>Oct'24 to March'25</b>
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	sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.	<ul style="list-style-type: none"> <li>• All the function of ETP and STP are in closed loop, as such there will be no chance of getting mixed with storm water.</li> <li>• Maintaining ZERO discharge from CPP</li> <li>• Complied.</li> </ul>
(xiii)	Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	
(xiv)	Utilization of 100% Fly Ash generated shall be made from 4th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	<p>We have achieved Fly Ash utilization rate of 100% at CPP in last Financial year FY24-25.</p> <ul style="list-style-type: none"> <li>• The Ash utilization report for last 12- month is attached for your ref. as <u>Annex-7</u></li> </ul>
(xv)	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. <u>Mercury and other heavy metals (As, Hg, Cr, Pb etc.)</u> will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed of in low lying area.	<ul style="list-style-type: none"> <li>• Complied.</li> <li>• No ash is disposed in low lying area.</li> <li>• Construction details is attached as Annex-7A</li> </ul>
(xvi)	Ash pond (if any) shall be lined with HDP/LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.	
(xvii)		<ul style="list-style-type: none"> <li>• Complied.</li> </ul>

 <b>usha martin</b>	Captive Power Plant 2X10 MW CPP, Taisilwai Ranchi	Environmental Clearance MOEF Letter No.: J-13012/122/2008-1A.II(T) dated 07-04-2011 Compliance status as on : 31. 03. 2025 Period : <b>Oct'24 to March'25</b>
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	Green Belt consisting of 3 tiers of plantations of native species around plant and covering 33% of area shall be raised. Tree density shall not less than 2500 per ha with survival rate not less than 80%.	<ul style="list-style-type: none"> <li>Phase wise plantation is in process.</li> <li>Garden view is attached as <b>Annex 8</b></li> </ul>
(xviii)	The project proponent shall also adequately contribute in the development of the neighboring villages. Special package with implementation schedule for providing fluoride free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	<ul style="list-style-type: none"> <li>Our CSR arm Usha Martin Foundation is engaged in its unwavering commitment to social responsibility. For over three decades, the company has invested ample man-hours and capital on community development projects for integrated prosperity in rural Jharkhand, through CSR arm. This NGO undertakes various development initiatives, following a model of Total Village Management (TVM). Focusing on key areas like Watershed development, agricultural productivity, better health practices, education, empowering women and encouraging micro enterprise.</li> </ul>
(xix)	An amount of Rs. 0.50 Crores shall be earmarked as one time capital cost for CSR programmed. Subsequently a recurring expenditure of Rs. 0.10 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one month along with road map for implementation.	<ul style="list-style-type: none"> <li>Complied.</li> </ul>



 <b>usha martin</b>	Captive Power Plant 2X10 MW CPP, Tatisilwai Ranchi	Environmental Clearance MOEF Letter No.: J-13012/122/2008-1A.II(T) dated 07-04-2011 Compliance status as on : 31. 03. 2025 Period : <b>Oct'24 to March'25</b>
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(xx)	While identifying CSR activities it shall be ensured that need based assessment for the nearby villages within study area shall be conducted to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people shall be undertaken. Development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. Vocational training programme for possible self-employment and jobs shall be imparted to identified villagers free of cost.	<ul style="list-style-type: none"> <li>• Complied.</li> <li>• CSR report Attached as <u>Annex-9</u></li> </ul>
(xxi)	It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.	<ul style="list-style-type: none"> <li>• Complied</li> <li>• Social audit report is attached as <u>Annex-10</u></li> </ul>

GENERAL CONDITIONS		
A B.	General Conditions:	Status
(i)	Adequate safety measures shall be provided in the plant area to check/ minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.	<ul style="list-style-type: none"> <li>• Complied</li> </ul>
(ii)	Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management	<ul style="list-style-type: none"> <li>• NO liquid fuel used in boiler during this period.</li> </ul>

Environment Dept. 2X10 MW CPP. Ranchi



	Captive Power Plant 2X10 MW CPP, Taisilwai Ranchi	Environmental Clearance
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	Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	
(iii)	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for <u>heavy metals (Hg, Cr, As, Pb)</u> and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	<ul style="list-style-type: none"> <li>Complied.</li> </ul>
(iv)	Monitoring surface water quantity and quality shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.	<ul style="list-style-type: none"> <li>Complied.</li> <li>Samples checked on regular basis in NABL lab. Also conducted 3<sup>rd</sup> party Testing. 3<sup>rd</sup> Party report is attached as <u>Annex-2 &amp; 2b.</u></li> </ul>
(v)	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	<ul style="list-style-type: none"> <li>Complied.</li> </ul>
(vi)	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like earplugs/ ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/ less noisy areas.	<ul style="list-style-type: none"> <li>Complied.</li> <li>Noise report is attached via <u>Annex-2 &amp; 2b</u></li> <li>Audiometric test has been carried out for all CPP employees periodically</li> </ul>
(vii)	Regular monitoring of ambient air ground level concentration of SO <sub>2</sub> Nox, PM <sub>2.5</sub> & PM <sub>10</sub> and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring	<ul style="list-style-type: none"> <li>Being Complied.</li> <li>Monitored regularly by in-house NABL Accredited Environmental laboratory.</li> </ul>



		Captive Power Plant	Environmental Clearance
2X10 MW CPP, Tatisilwai Ranchi			MOEF Letter No.: J-13012/122/2008-1A.11(T) dated 07-04-2011
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			Period : <b>Oct'24 to March'25</b>

	stations and frequency of monitoring shall be decided in consultation with SP/CB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	<ul style="list-style-type: none"> <li>Accreditation certificate is attached as Annex-11</li> </ul>
(viii)	Provision shall be made for the housing of construction labour (as applicable) within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	<ul style="list-style-type: none"> <li>Complied.</li> </ul>
(ix)	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forest at <a href="http://envfor.nic.in">http://envfor.nic.in</a> .	<ul style="list-style-type: none"> <li>Complied.</li> </ul>
(x)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, urban local Body and the Local NGO, if any from whom suggestions / representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	<ul style="list-style-type: none"> <li>Complied.</li> <li>Copy of Clearance letter sent is attached for ref. Annex 12</li> </ul>
(xi)	An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the head of the Cell shall directly report to the Head of the Organization.	<ul style="list-style-type: none"> <li>Complied</li> </ul>



	Captive Power Plant 2X10 MW CPP, Tatisilwai Ranchi	Environmental Clearance MOEF Letter No.: J-13012/122/2008-1A,11(T) dated 07-04-2011 Compliance status as on : 31. 03. 2025 Period : <b>Oct'24 to March'25</b>
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(xii)	<p>The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM (PM2.5 &amp; PM10), SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.</p>
(xiii)	<p>The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry be e-mail.</p>
(xiv)	<p>The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.</p>




(xv)	Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and update the same from time to time at least six monthly basis. Criteria pollutants levels including Nox (from stack & ambient air) shall be displayed at the main gate of the power plant.	<ul style="list-style-type: none"> <li>Complied.</li> <li>Criteria pollutants levels including NOx (from stack &amp; ambient air) are displayed at the main gate of the power plant.</li> </ul>
(xvi)	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	<ul style="list-style-type: none"> <li>Separate fund is already allocated.</li> </ul>
(xvii)	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.	<ul style="list-style-type: none"> <li>complied</li> <li>Documents regarding financial closure for this project is attached as <u>Annex-14</u></li> </ul>
(xviii)	Full cooperation shall be extended to the Scientists/ Officers from the Ministry / Regional Office of the Ministry at Bangalore / CPCB/ SPCB who would be monitoring the compliance of environmental status.	<ul style="list-style-type: none"> <li>Agreed,</li> <li>Noted for compliance</li> </ul>

	Captive Power Plant 2X10 MW CPP, Tatisilwai Ranchi	Environmental Clearance MOEF Letter No.: J-13012/122/2008-1A.11(T) dated 07-04-2011 Compliance status as on : 31. 03. 2025 Period : <b>Oct'24 to March'25</b>
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5	<p>The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. The Ministry may also impose additional environmental conditions or modify the existing ones, if necessary.</p>		<ul style="list-style-type: none"> <li>Noted for compliance</li> </ul>
6	<p>The environmental clearance accorded shall be valid for a period of 5 years to start operations by the power plant.</p>		<ul style="list-style-type: none"> <li>Plant was operational within 5 years of grant of EC.</li> </ul>
7	<p>Concealing factual data or submission of false/ fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.</p>		<ul style="list-style-type: none"> <li>Agreed,</li> <li>Noted for compliance</li> </ul>
8	<p>In case of any deviation or alteration in the project proposed including coal transportation system from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.</p>		<ul style="list-style-type: none"> <li>Noted for compliance</li> </ul>
9	<p>The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.</p>		<ul style="list-style-type: none"> <li>Noted for compliance</li> </ul>



	Captive Power Plant 2X10 MW CPP, Taisilwai Ranchi	Environmental Clearance	
		MOEF Letter No.: J-13012/122/2008-1A.II(T) dated 07-04-2011	
		Compliance status as on : 31. 03. 2025	
		Period : <b>Oct'24 to March'25</b>	

Others conditions: (As Per EC amendment letter vide letter No-J-13012/122/2008-1A.II(T) on Dated 09.10.2019)

	The following additional conditions are stipulated for compliance.	Status
i.	The status of the complaint No. C-2472/19 filed before the Chief Judicial Magistrate, Ranchi by the Jharkhand State Pollution Control Board for transporting coal by road without Ministry's permission is to be furnished along with Six Monthly Compliance Report.	Under progress
ii.	The status of complaint No. C-2472/19 filed before the Chief Judicial Magistrate, Ranchi by the Jharkhand State Pollution Control Board u/s 19 of Environment (Protection) Act, 1986 for transporting coal by road without Ministry's permission shall be submitted along with Six Monthly Compliance Report. Copies of the orders passed by the Chief Judicial Magistrate shall also be submitted.	Under Progress
iii.	Coal shall be procured through e-auction only and not from open market.	Complied. We are procuring coal according to OM dated 11/11/2020. Executed FSA with CCL under NRS linkage for supply coal to CPP. Compliance Status of Office Memorandum on dated 11 <sup>th</sup> Nov'20 against File No.: J-13012/8/2009-1A.II (T) is attached as Annex 15
iv.	The transportation by road shall be through mechanically covered trucks to the extent feasible, else through trucks firmly covered by tarpaulin sheet.	<ul style="list-style-type: none"> <li>Complied</li> </ul>
v.	Possibility of upgrading road shoulders into pakka road in consultation with the State Govt. be explored be explored.	<ul style="list-style-type: none"> <li>Noted</li> </ul>
vi.	Periodic maintenance of the road shall be done by the project proponent at its own cost and shall also facilitate the traffic control on the road in consultation with the State Govt.	<ul style="list-style-type: none"> <li>Noted</li> </ul>

Environment Dept. 2X10 MW CPP, Ranchi

	Captive Power Plant 2X10 MW CPP, Tatisilwai Ranchi	Environmental Clearance MOEF Letter No.: J-13012/122/2008-1A-II(T) dated 07-04-2011 Compliance status as on : 31. 03. 2025 Period : <b>Oct'24 to March'25</b>
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vii.	Avenue plantation shall be carried out in consultation with Social Forestry Department and NHAI or PWD along the routes proposed for transportation. The progress report such a number of sampling planted, length of road covered, survival rate, expenditure on maintenance (tree guard, watering and manure supply) shall be submitted along with six monthly compliance report.	<ul style="list-style-type: none"> <li>Noted</li> </ul>
viii.	The PP shall advertise in the local leading newspapers and place on the website, the temporary permission accorded by the Ministry as a part of public information.	<ul style="list-style-type: none"> <li>Complied</li> <li>Published on dated 09.11.2019</li> </ul>
ix.	The SO <sub>2</sub> and NO <sub>x</sub> emissions from the flue gas shall be restricted to below 600 mg/Nm <sup>3</sup> and 600 Mg/Nm <sup>3</sup> , respectively.	<ul style="list-style-type: none"> <li>Being followed</li> <li>Report attached</li> </ul>
23	All other conditions mentioned in the EC vide dated 07.04.2011 shall remain the same.	<ul style="list-style-type: none"> <li>Noted</li> </ul>





**J-13012/122/2008-IA.II (T)**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**

Indira Paryavaran Bhawan, Jor Bagh Road  
Aliganj, New Delhi-110003

Dated: 13.05.2020

To

**M/s Usha Martin Ltd.**  
2A, Shakespeare Sarani,  
Kolkata- 700 071.

Tel. No. 033-22823985/39800300; Fax: 033-22829029/39800400.

**Sub: Coal Based Captive Thermal Power Plant of 2x10 MW at Village Tatisilwai, District Ranchi in Jharkhand by M/s. Usha Martin Ltd. – reg. amendment of EC regarding permission to transport coal by road.**

Sir,

The undersigned is directed to refer your online application No. **IA/JH/THE/138854/2020** dated 27.01.2020 for seeking permission to transport coal by road for the above mentioned project.

2. It has been noted that Environmental Clearance (EC) for the above project was accorded vide letter dated 07.04.2011. Subsequently, the Ministry vide letter dated 9.10.2019 granted:-

- a) ex-post facto permission for sourcing of coal through e-auction and transportation by road for a period of three years i.e. till 31.03.2018;
- b) permission to transport coal by road for further period of three years, i.e. till 31.03.2021; from
  - i. Sikini mines- 124.4 km
  - ii. Magadh Mines- 145.5 km
  - iii. Amrapali mines- 141.9 km, and
- c) amendments regarding sourcing coal through e-auction, land requirement to 22.437 acres instead of 12.278 acres and ash content to 41.7% instead of 34%.

3. It has been noted that the 2x10 MW Captive Power Plant was established to ensure the uninterrupted power supply to Steel Wire and Wire rope plant to prevent breakage of wire to ensure internationally acceptable wire ropes particularly for use in critical safety applications. The wire rope plant is providing employment to 4400 workmen.

4. It was informed that the Hon'ble Supreme Court vide its judgment dated 25.8.2014 and 24.9.2014 cancelled allocation of Lohari Coal Block which was to cater coal requirement to the captive power plant. The plant started its operations with commissioning of 1<sup>st</sup> Unit on 31.3.2012 and 2<sup>nd</sup> Unit on 31.12.2012. At present, the company has been sourcing coal through e-auction from nearby mines of Central Coalfields Ltd. But during recent times e-auction is very much irregular which resulted in coal shortage as well as high production costs. It was informed that the company was forced to stop its production of one unit for 82 days in the year 2019.

5. It has been informed that the auctioned quantity has reduced by 47% and 59% in FY 19 and FY20 (till Dec 2019) respectively as compared to quantity offered during FY18 which reduced the chances of winning the required quantity of coal for the Power Plant.

6. The Coal requirement for the power plant is 0.183 MTPA. The coal quantity of 500 tonnes per day involving to & fro movement of 40 tippers per day with capacity 25 tonnes. It has been now proposed to procure coal by road from a) West Bokaro Ghato Mines & Jamadoba Mines of Tata Steel, and b) Heavy Engineering Corporation Ltd., Ranchi through Bilateral agreement/Window Sale. The Traffic Impact Assessment Report has been submitted for the proposed routes of coal transportation. The details of these routes are as below:

Routes	Length, km	Length of Stretch (in km) w.r.t. Type				Type of road
		Single Lane (<5.5 m)	Intermediate (≥ 5.5 m)	Two Lane (≥ 7 m)	Multi-lane (≥ 10 m)	
Route-1: HEC Plant to CPP.	64.77	0.90	2.80	2.02	59.05	Black top: 64.57 & Concrete: 0.2 km
Route-2: West Bokaro OC coal mine of Tata Steel to CPP.	66.76	0.90	0.00	0.30	65.56	Black Top: 66.76 km

7. The traffic sufficiency assessment has been estimated. The percentage utilisation of road after taking into consideration of existing traffic and incremental is in the range of 32-116%. Where existing traffic is exceeding the design service volume of the road, it has been proposed to restrict the movement of trucks to the time period between 9 pm to 8 am only, when the traffic is lean.

8. The baseline air quality has been collected at various locations along the route. Incremental concentrations have been predicted and the cumulative concentrations including baseline data are within the ambient air quality standards.

9. It has been informed that all other environmental and safety measures will be implemented such as dust control measures at unloading point, covering trucks with tarpaulin cover, maintenance of vehicles and following Central Motor Vehicles Act and Rules for maintaining road safety.

10. The matter was placed before the Re-constituted Expert Appraisal Committee (Thermal Power) in its meetings held on 21.2.2020. In acceptance of the

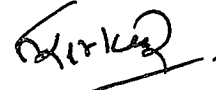


recommendations of the EAC in its meeting held on 21.2.2020 and in view of the information/documents/clarifications furnished by you, with respect to the above mentioned power project, **the Ministry hereby accords permission to transport coal by road through additional routes from West Bokaro Ghato Mines & Jamadoba Mines of Tata Steel Ltd. and Heavy Heavy Engineering Corporation Ltd., Ranchi for a period two years** subject to following additional conditions:

- i. The coal shall be transported through Route-1: HECL, Ranchi during lean traffic period (9 pm to till 8 am).
  - ii. Water sprinkling is to be carried out at the road stretch near Tatisilwai village to control secondary dust.
11. All other conditions mentioned in the EC vide dated 07.04.2011 and amendment letter dated 9.10.2019 shall remain the same, as applicable.

This issues with the approval of the Competent Authority.

Yours faithfully,



(Dr. S. Kerketta)  
Director, IA.I

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (ECZ), Bungalow No. A-2, Shyamali Colony, Ranchi- 834002.
5. The Secretary (Environment), Forests and Environment Department Government of Jharkhand.
6. The Chairman, Jharkhand State Pollution Control Board, TA Building, HEC Complex, P.O. Dhurwa, Distt. Ranchi.
7. The District Collector, Ranchi District, Govt. of Jharkhand.
8. Guard file/Monitoring file.
9. Website of MoEF&CC.



Director, IA.I



**J-13012/122/2008-IA.II (T)**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**

Indira Paryavaran Bhawan, Jor Bagh Road  
Aliganj, New Delhi-110003

Dated: 09.10.2019

To

**M/s Usha Martin Ltd.**  
2A, Shakespeare Sarani,  
Kolkata- 700 071.

Tel. No. 033-22823985/39800300; Fax: 033-22829029/39800400.

**Sub: Coal Based Captive Thermal Power Plant of 2x10 MW at Village Tatisilwai, District Ranchi in Jharkhand by M/s. Usha Martin Ltd. - reg. amendment of EC regarding permission to transport coal by road, sourcing of coal, land requirement and ash content in coal.**

Sir,

This has reference to your online application No. **IA/JH/THE/10337/2011** dated 25.02.2015 and 16.1.2015 and the documents submitted vide your letters dated 26.4.2018 and 11.6.2019 on the above subject. It is noted that Environmental Clearance (EC) for the above project was accorded vide letter dated 07.04.2011. As per the said EC, the coal shall be obtained from captive Lohari coal block in Jharkhand and road transportation of coal was permitted for a limited period of three years only. Vide your application dated 25.2.2015, it has been requested for sourcing of coal through e-auction and extension of permission for temporary road transportation of coal for three years. Further, you have also requested for corrections in the EC as per EIA/EMP report regarding land requirement and ash content in coal.

2. The specific condition 4A(i) of the EC dated 7.4.2011 stipulates as follows:

*Road transportation of coal shall be permitted for a limited period of 36 months only. The project proponent shall shift to railway transportation thereafter. The project proponent shall be vicariously responsible for liabilities incurred for road transportation such as accidental damages to public, coal fines emission from transporting trucks etc. The project proponent shall immediately start its action plan for rail transportation with consultation with the Railways and shall submit half yearly action taken report to the Ministry on the matter."*

3. It has been informed that Unit-1 (1x10 MW) and Unit-2 (1x10 MW) have been commissioned in March, 2012 and December, 2012 respectively. The coal requirement for the project is 1.25 Lakh Tonnes per annum (500 Tons/day involving 20 trucks with 25 ton capacity). Nearest railway stations are Tatisilwai (1 km) and Hatia (15 km). The Hatia station has only outward transport facility and Tatisilwai has no siding for coal loading and unloading.

4. It has been informed that the Lohari coal block, Jharkhand which was allocated for this captive power plant has been de-allocated by the Supreme Court. The coal is currently procured through e-auction carried by M/s Central Coalfields Ltd. or M/s Jharkhand State Mineral Development Corporation since the commissioning of the power plant.



5. The coal has been transported by the road since commissioning of the power plant. The distance of road transportation is in the range of 83-100 km depending upon coal mine.

6. It has been informed that the quantity of coal transported by road since its commissioning is as follows:

Sr.No	Year	Quantity (MT)
1	FY13	63,782
2	FY14	67,480
3	FY15	1,12,995
4	FY16	1,14,883
5	FY17	1,17,258
6	FY18	1,25,134
Total		6,01,532

7. It has been informed that the Hatia Railway station is at 15 km and there is no infrastructure to deal with inward coal rakes. Further, Hatia railway station is situated in populated area and road transportation from Hatia to Tatisilwai will be through Ranchi city during limited hours. The Tatisilwai Railway station is at 01 km from the power plant and the required infrastructure to deal with inward coal is not available.

8. The additional information sought by the Ministry has not been submitted. Accordingly, the proposal dated 25.2.2015 has been delisted from the pendency of the Ministry. As the coal transportation has been taken place by road without Ministry's approval after 31.3.2015, the Ministry directed Jharkhand State Pollution Control Board to take a credible action u/s 19 of E(P) Act, 1986. Subsequently, Jharkhand State Pollution Control Board vide letter dated 7.6.2019 informed that a complaint vide No.2472/10 has been filed in the Court of Chief Judicial Magistrate for transporting coal by road without formal approval from the Ministry.

9. It has been noted that the proposal for further extension of permission for road transportation till the railway infrastructure is established, has been submitted in the Ministry.

10. It has been informed that the requirement of coal for the present power plant (2x10 MW) is in the range of 1.25 Lakh Tonnes per annum. It is not feasible to establish a railway siding within the plant area as it requires additional land acquisition. The area of captive power plant is 22.437 acres out of which main plant occupies 12.278 acres and rest of the area is occupied by the utilities such as coal yard, rain water harvesting system, plantation, ash dyke, weigh bridge and reservoir, etc. Further, there is no private land available adjacent to the plant area.

11. It has been informed that the Lohari coal block (near Daltonganj, Jharkhand) which was linked to the plant for coal supply has been de-allocated by the Supreme Court. Hence, there is no definite source available now and company is procuring coal through e-auction from M/s Central Coalfields Ltd. (M/s CCL) and M/s Jharkhand State Mineral Development Corporation. Further, all coal mines of M/s CCL are in the vicinity as well as within the 200 km from the plant. The e-auction coal is supplied only by road mode based on low priority given for Captive Power Plant as non-core consumer.

12. It has been informed that the peak coal requirement is 500 TPD at 100% Plant Load Factor (PLF). M/s CCL has issued a circular and informed that the

lifting of coal from its mines shall be through Road mode only to non-core consumers. The Circular of M/s CCL dated 9.9.2014 states that the allotment of coal from October, 2014 onwards will be made by rail mode only nearby consumers of Captive Power Plant/sponge iron.

13. It has been noted that M/s Mecon Ltd., Ranchi has carried out feasibility study for laying railway siding and line from the nearest take off point and submitted the report on 13.5.2019. The report has mentioned that coal unloading facilities at plant to accommodate full rake, the area of 870 m length x 25 m width (21,750 m<sup>2</sup>/ 2.175 Ha) is required. Whereas, the plant area of 22.437 acres measures 345 m (West- East) x 325 m (South-North) and hence construction of private siding is not possible. It has concluded that the plant cannot accommodate full or half rake unloading railway yard as well as 8 wagons unloading yard on present land profile of the plant. Further, there is no vacant private land available for siding beyond railway boundary. The coal rake from Tori/Barkakana end on existing up line cannot enter in to the plant which is located on down side.

14. It has been informed that the quantity of coal required is only 4 rakes per month (500 Tons/day). Considering the low quantities, establishing private railway siding is not economically viable and the asset may end up in the category of Non Performing Assets (NPA) and will also make the Wire Rope plant unviable.

15. The three routes proposed for road transportation are viz. Route-1: Sikni mines-124.4, Route-2: Magadh Mine- 145.5 km and Route-3: Amrapali Mine-141.9 km.

Route No.	From	Length of the route (km)	Remarks
Route-1	Sikni Mines to Plant	124.4 km	NH-5: 83 km NH-75: 46 km 6-lane Ring road: 23.5 km
Route-2	Magadh Mine to Plant	145.5 km (Route-1: 124.4 km+ 21.1 km)	Additional 21 km is NH-99
Route-3	Amrapali mine to Plant	141.9 km	NH-33: 84 km SH-7: 47 km

16. The maximum part of the route considered is a highway passing through rural areas. These highways are NH-75, NH-99, NH-33 and SH-7, which are considered as an all-purpose road, with no control of access and with heterogeneous mix of fast and slow-moving vehicles. Width of the roads in the proposed route is provided as below:

Route	Length	Lane				Type of road
		Single Lane (<5.5 m)	Intermediate Lane (5.5-7 m)	Two Lane (7-10 m)	Multi lane (≥10 m)	
Route-1	124.4 km	0.9 km	4.2 km	33.4 km	85.9 km	Black Top: 63% Concrete: 37%
Route-2	145.5 km	2.9 km	4.2 km	53.2 km	86.2 km	Black Top: 68%



						Concrete: 32%
Route-3	141.9 km	0.9 km	Nil	46.6 km	94.4 km	Black Top: 100%

17. The daily coal requirement is 500 MT/day which involve 25 trucks (50 to and fro) with the capacity of 20 Tons. The percentage utilisation of the roads including the project traffic is in the range of 48.5-96.8%. Thus the roads at all points have sufficient capacity to accommodate present and proposed traffic for next three years.

18. All the three routes considered for the study are capable to support existing as well as projected traffic loads at LoS C in rural as well as urban areas. Only at one census point, Tati village, movement is and shall be restricted to night hours only. The projected traffic volume after five year plus, with its natural growth, shall be vary between 14.3% to 165.3% of DSV on roads passing through Urban areas.

19. The maximum ground level concentrations due to proposed traffic have been computed by using a dispersion modelling software and the details are as below:

Parameter	Highest AAQ baseline ( $\mu\text{g}/\text{m}^3$ )	Incremental Values ( $\mu\text{g}/\text{m}^3$ )	Resultant concentrations ( $\mu\text{g}/\text{m}^3$ )	National Standard ( $\mu\text{g}/\text{m}^3$ )
PM <sub>10</sub>	82.2	4.41	86.61	100
PM <sub>2.5</sub>	47.8	1.07	48.87	60
SO <sub>2</sub>	13	0.27	13.27	80
NO <sub>2</sub>	22.2	1.92	24.12	80

20. It has been informed that the vehicles will be covered with tarpaulin sheet, have PUC and have spill-proof transportation. Vehicles having fitness certificate shall be allowed to ply.

22. It has been noted that a Committee involving MoC, MoP, M/s CIL Ltd., Railway Board and other major stakeholders, has been constituted to review the status of rail connectivity infrastructure at the plant site & pit head/coal mines area and need for extension of road transportation for various power projects and coal mines.

21. The matter was placed before the Re-constituted Expert Appraisal Committee (Thermal Power) in its meetings held during 19<sup>th</sup>-20<sup>th</sup> May, 2015, 27.03.2019 and 26.6.2019. In acceptance of the recommendations of the EAC in its meeting held on 26.6.2019 and in view of the information/documents/clarifications furnished by you, with respect to the above mentioned power project, **the Ministry hereby accords the following:**

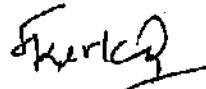
- a) **Ex-post facto permission for sourcing of coal through e-auction and transportation by road for a period of three years i.e. till 31.03.2018;**
- b) **Permission to transport coal by road for further period of three years, i.e. till 31.03.2021; A final decision to allow road permanently will be taken after the recommendations of the Committee constituted for formulating the policy on coal transportation.**
- c) **Amendments regarding sourcing coal through e-auction, land requirement of the project shall be 22.437 acres instead of 12.278 acres and restriction of ash content in coal shall be 41.7% instead of**

**34% are allowed.**

21. The following additional conditions are stipulated for compliance.
- i. The status of the complaint No.C-2472/19 filed before the Chief Judicial Magistrate, Ranchi by the Jharkhand State Pollution Control Board for transporting coal by road without Ministry's permission is to be furnished along with Six Monthly Compliance Report.
  - ii. The status of complaint No.C-2472/19 filed before the Chief Judicial Magistrate, Ranchi by the Jharkhand State Pollution Control Board u/s 19 of Environment (Protection) Act, 1986 for transporting coal by road without Ministry's permission shall be submitted along with Six Monthly Compliance Report. Copies of the orders passed by the Chief Judicial Magistrate shall also be submitted.
  - iii. Coal shall be procured through e-auction only and not from open market.
  - iv. The transportation by road shall be through mechanically covered trucks to the extent feasible, else through trucks firmly covered by tarpaulin sheet.
  - v. Possibility of upgrading road shoulders into pakka road in consultation with the State Govt. be explored.
  - vi. Periodic maintenance of the road shall be done by the project proponent at its own cost and shall also facilitate the traffic control on the road in consultation with the State Govt.
  - vii. Avenue plantation shall be carried out in consultation with Social Forestry Department and NHAI or PWD along the routes proposed for transportation. The progress report such as number of saplings planted, length of road covered, survival rate, expenditure on maintenance (tree guard, watering and manure supply) shall be submitted along with six monthly compliance report.
  - viii. The PP shall advertise in the local leading newspapers and place on the website, the temporary permission accorded by the Ministry as a part of public information.
  - ix. The SO<sub>2</sub> and NO<sub>x</sub> emissions from the flue gas shall be restricted to below 600 mg/Nm<sup>3</sup> and 600 mg/Nm<sup>3</sup>, respectively.
22. All other conditions mentioned in the EC vide dated 07.04.2011 shall remain the same.

This issues with the approval of the Competent Authority.

Yours faithfully,

  
(Dr. S. Kerketta)  
Director, I.A.I

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.



4. The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (ECZ), Bungalow No. A-2, Shyamali Colony, Ranchi- 834002.
5. The Secretary (Environment), "Forests and Environment Department Government of Jharkhand.
6. The Chairman, Jharkhand State Pollution Control Board, TA Building, HEC Complex, P.O. Dhurwa, Distt. Ranchi.
7. The District Collector, Ranchi District, Govt. of Jharkhand.
8. Guard file/Monitoring file.
9. Website of MoEF&CC.

Director, IA.I

Mr. Tannoy Sinha  
CPR



**J-13012/122/2008-IA.II (T)**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**

. Indira Paryavaran Bhawan, Jor Bagh Road  
Aliganj, New Delhi-110003

Dated: 10.10.2019

**Office Order**

**Sub: Coal Based Captive Thermal Power Plant of 2x10 MW at Village Tatisilwai, District Ranchi in Jharkhand by M/s. Usha Martin Ltd. - reg. Directions under Section 5 of Environment (Protection) Act, 1986.**

The Environmental Clearance (EC) for the above mentioned project was accorded vide Ministry's letter dated 07.04.2011. As per the said EC, the coal shall be obtained from captive Lohari coal block in Jharkhand and road transportation of coal was permitted for a limited period of three years only.

2. The specific condition 4A(i) of the EC dated 7.4.2011 stipulates as follows:

*Road transportation of coal shall be permitted for a limited period of 36 months only. The project proponent shall shift to railway transportation thereafter. The project proponent shall be vicariously responsible for liabilities incurred for road transportation such as accidental damages to public, coal fines emission from transporting trucks etc. The project proponent shall immediately start its action plan for rail transportation with consultation with the Railways and shall submit half yearly action taken report to the Ministry on the matter."*

3. The Unit-1 (1x10 MW) and Unit-2 (1x10 MW) have been commissioned in March, 2012 and December, 2012 respectively. The coal requirement for the project is 1.25 Lakh Tonnes per annum (500 Tons/day involving 20 trucks with 25 ton capacity). Nearest railway stations are Tatisilwai (1 km) and Hatia (15 km). The Hatia station has only outward transport facility and Tatisilwai has no siding for coal loading and unloading.

4. It has been informed that the Lohari coal block, Jharkhand which was allocated for this captive power plant has been de-allocated by the Supreme Court. The coal is currently procured through e-auction carried by M/s Central Coalfields Ltd. or M/s Jharkhand State Mineral Development Corporation since the commissioning of the power plant.

5. The coal has been transported by the road since commissioning of the power plant. The distance of road transportation is in the range of 83-100 km depending upon coal mine.

6. It has been informed that the quantity of coal transported by road since its commissioning is as follows:

Sr.No	Year	Quantity (MT)
1	FY13	63,782
2	FY14	67,480
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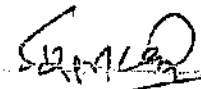


7. The proposal for extension of permission for road transportation has been recommended by the EAC (Thermal Power) in its meeting held during 19<sup>th</sup> -20<sup>th</sup> May, 2015. However, the approval for transportation of coal by road could not be accorded as certain requisite information was pending from the Project Proponent. The Jharkhand State Pollution Control Board has filed a complaint vide No.C-2472/19 before the Chief Judicial Magistrate, Ranchi by for transporting coal by road without Ministry's permission.

8. Further, the Ministry vide letter dated 09.10.2019 granted ex-post facto permission for sourcing of coal through e-auction and transportation by road for a period of three years i.e. till 31.03.2018; permission to transport coal by road for further period of three years, i.e. till 31.03.2021; and amendments regarding sourcing coal through e-auction, land requirement of 22.437 acres instead of 12.278 acres and restriction of ash content in coal shall be 41.7% instead of 34%, etc.

9. In view of the above, the Jharkhand State Pollution Control Board is hereby directed to carry out the environmental damage assessment for transporting coal by road from March, 2015 till March, 2018 by the M/s Usha Martin Ltd. without Ministry's approval and furnish a copy of its report to the Chief Judicial Magistrate, Ranchi for further action duly endorsing a copy to this Ministry.

This issues with the approval of the Competent Authority.

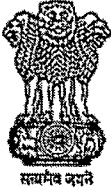
  
(Dr. S. Kerketta)  
Director, IA.I

**The Chairman**  
**Jharkhand State Pollution Control Board**  
TA Building, HEC Complex,  
P.O. Dhurwa, Distt. Ranchi-834004.

**Copy to:**

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (ECZ), Bungalow No. A-2, Shyamali Colony, Ranchi- 834002.
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7. M/s Usha Martin Ltd., 2A, Shakespeare Sarani, Kolkata- 700 071.
8. Guard file/Monitoring file.
9. Website of MoEF&CC.

  
Director, IA.I



**J-13012/122/2008-IA.II (T)**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**

Indira Paryavaran Bhawan, Jor Bagh Road  
Aliganj, New Delhi-110003

Dated: 13.05.2020

To

**M/s Usha Martin Ltd.**  
2A, Shakespeare Sarani,  
Kolkata- 700 071.

Tel. No. 033-22823985/39800300; Fax: 033-22829029/39800400.

**Sub: Coal Based Captive Thermal Power Plant of 2x10 MW at Village Tatisilwai, District Ranchi in Jharkhand by M/s. Usha Martin Ltd. – reg. amendment of EC regarding permission to transport coal by road.**

Sir,

The undersigned is directed to refer your online application No. **IA/JH/THE/138854/2020** dated 27.01.2020 for seeking permission to transport coal by road for the above mentioned project.

2. It has been noted that Environmental Clearance (EC) for the above project was accorded vide letter dated 07.04.2011. Subsequently, the Ministry vide letter dated 9.10.2019 granted:-

- a) ex-post facto permission for sourcing of coal through e-auction and transportation by road for a period of three years i.e. till 31.03.2018;
- b) permission to transport coal by road for further period of three years, i.e. till 31.03.2021; from
  - i. Sikini mines- 124.4 km
  - ii. Magadh Mines- 145.5 km
  - iii. Amrapali mines- 141.9 km, and
- c) amendments regarding sourcing coal through e-auction, land requirement to 22.437 acres instead of 12.278 acres and ash content to 41.7% instead of 34%.

3. It has been noted that the 2x10 MW Captive Power Plant was established to ensure the uninterrupted power supply to Steel Wire and Wire rope plant to prevent breakage of wire to ensure internationally acceptable wire ropes particularly for use in critical safety applications. The wire rope plant is providing employment to 4400 workmen.

4. It was informed that the Hon'ble Supreme Court vide its judgment dated 25.8.2014 and 24.9.2014 cancelled allocation of Lohari Coal Block which was to cater coal requirement to the captive power plant. The plant started its operations with commissioning of 1<sup>st</sup> Unit on 31.3.2012 and 2<sup>nd</sup> Unit on 31.12.2012. At present, the company has been sourcing coal through e-auction from nearby mines of Central Coalfields Ltd. But during recent times e-auction is very much irregular which resulted in coal shortage as well as high production costs. It was informed that the company was forced to stop its production of one unit for 82 days in the year 2019.



5. It has been informed that the auctioned quantity has reduced by 47% and 59% in FY 19 and FY20 (till Dec 2019) respectively as compared to quantity offered during FY18 which reduced the chances of winning the required quantity of coal for the Power Plant.

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Routes	Length, km	Length of Stretch (in km) w.r.t. Type				Type of road
		Single Lane (<5.5 m)	Intermediate (≥ 5.5 m)	Two Lane (≥ 7 m)	Multi-lane (≥ 10 m)	
Route-1: HEC Plant to CPP.	64.77	0.90	2.80	2.02	59.05	Black top: 64.57 & Concrete: 0.2 km
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7. The traffic sufficiency assessment has been estimated. The percentage utilisation of road after taking into consideration of existing traffic and incremental is in the range of 32-116%. Where existing traffic is exceeding the design service volume of the road, it has been proposed to restrict the movement of trucks to the time period between 9 pm to 8 am only, when the traffic is lean.

8. The baseline air quality has been collected at various locations along the route. Incremental concentrations have been predicted and the cumulative concentrations including baseline data are within the ambient air quality standards.

9. It has been informed that all other environmental and safety measures will be implemented such as dust control measures at unloading point, covering trucks with tarpaulin cover, maintenance of vehicles and following Central Motor Vehicles Act and Rules for maintaining road safety.

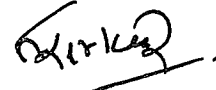
10. The matter was placed before the Re-constituted Expert Appraisal Committee (Thermal Power) in its meetings held on 21.2.2020. In acceptance of the

recommendations of the EAC in its meeting held on 21.2.2020 and in view of the information/documents/clarifications furnished by you, with respect to the above mentioned power project, **the Ministry hereby accords permission to transport coal by road through additional routes from West Bokaro Ghato Mines & Jamadoba Mines of Tata Steel Ltd. and Heavy Heavy Engineering Corporation Ltd., Ranchi for a period two years** subject to following additional conditions:

- i. The coal shall be transported through Route-1: HECL, Ranchi during lean traffic period (9 pm to till 8 am).
  - ii. Water sprinkling is to be carried out at the road stretch near Tatisilwai village to control secondary dust.
11. All other conditions mentioned in the EC vide dated 07.04.2011 and amendment letter dated 9.10.2019 shall remain the same, as applicable.

This issues with the approval of the Competent Authority.

Yours faithfully,



(Dr. S. Kerketta)  
Director, IA.I

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (ECZ), Bungalow No. A-2, Shyamali Colony, Ranchi- 834002.
5. The Secretary (Environment), Forests and Environment Department Government of Jharkhand.
6. The Chairman, Jharkhand State Pollution Control Board, TA Building, HEC Complex, P.O. Dhurwa, Distt. Ranchi.
7. The District Collector, Ranchi District, Govt. of Jharkhand.
8. Guard file/Monitoring file.
9. Website of MoEF&CC.



Director, IA.I



Latter Ref: UML/CPP/Ranchi/EC/24-25/03

To

Ministry of Environment, Forest and Climate Change, Integrated Regional Office,  
2nd Floor, Headquarter- Jharkhand State Housing Board,  
Harmu Chowk, Ranchi, Jharkhand – 834002

Subject: Coal Based Captive Thermal Power Plant of 2x10 MW at village Tatisilwai, District Ranchi in Jharkhand by M/S Usha Martin Ltd.-reg. Proposed Coal Procurement in FY25

Ref. Office Memorandum on dated 11<sup>th</sup> Nov 2020

Respected Sir,

Ref. to your office Memorandum on dated 11<sup>th</sup> Nov 2020, we are hereby submitting the proposed scheme of sourcing & transportation of coal for your kind reference.

Location of Source	Proposed Quantity(MMT)	Distance from Mines/Source	Mode of transportation	Quality			
				Ash %	Sulphur %	Moisture %	Calorific Value (Kcal/Kg)
Different CCL mines (FSA)	0.096	100-150 Kms	By Road through Tarpaulin covered Truck	33-40%	<0.3%	<10%	3500-4500
Different CCL mines (E-auction coal from Amrapali, Ashoka etc)	0.071	110 -125 kms		35-40%	<0.3%	<10%	3500-4501
West Bokaro coal mine of Tata Steel	0.016	60-70 kms		35-40%	<0.3%	<10%	3500-4502

Thanking you & assuring you of our best attention.

Yours faithfully,



For USHA MARTIN LIMITED  
(Authorized Signatory)

**TANMOY SINHA**  
HOD (CPP)  
USHAMARTIN LTD.  
RANCHI, PIN-835103



सेंट्रल कोलफील्ड्स लिमिटेड

(भारत सरकार का एक उपक्रम)

विक्रय एवं विपणन विभाग

दरभंगा हाउस, रांची 834 029

CENTRAL COALFIELDS LIMITED

(Govt. of India Undertaking)

Sales & Marketing Department

DARBHANGA HOUSE, RANCHI

टेलीफोन/Telefax- 0651-2360369 वेबसाइट/Website- www.ccl.gov.in

**By Regd. Post and e-mail**

**LOI**

Ref No. CCL/HQ/C-4/FSA/CP (T-V)/2021-22/ 2618

Dated: 15.12.2021

76

To,  
Sri Chandan Jha,  
M/s Usha Martin Limited,  
Purulia Road Tatisilwai Ranchi Pin 835103, RANCHI, 835103, Jharkhand,  
e-mail: chandan\_jha@ushamartin.co.in

**Subject: Declaration of Successful Bidder pursuant to CPP sub-sector Auction Process.**

Dear Sir/ Madam,

Pursuant to the Scheme Document dated October'21 ("**Scheme Document**"), I am directed to declare **M/s Usha Martin Limited** as the Successful Bidder for award of the quantity of coal specified in **Schedule 1**. This declaration is in pursuance of the provisions contained in the Scheme Document and the fulfilment of Conditions to Auction and the Bid submitted by the Bidder for the Specified End Use Plant: **Usha Martin Limited (20 MW)**.

Details of the Specified End Use Plant, allocated quantity of coal, the Winning Premium and other details are set out in **Schedule 1**.

Pursuant to Clause 7 and Clause 3.5.4 of the Scheme Document, the Successful Bidder is required to submit the Performance Security within the timelines stipulated in Clause 3.5.4 and also provide the documents specified in Annexure IX to the *relevant Subsidiary* within **75 days** of issuance of this letter of intent.

The Successful Bidder shall be required to depute an Authorised Signatory to execute the Fuel Supply Agreement (the "**Agreement**") on its behalf. The Authorised Signatory deputed by the Successful Bidder should be present at the aforementioned time and place along with: (a) original documents confirming identity of such person along with a self-attested photocopy of the same; (b) true copy of power of attorney in favour of the Authorised Signatory to execute the Agreement including the extract of the charter documents or documents such as a board or shareholders resolution authorizing the execution of such power of attorney and/or the Agreement.

The Subsidiary may, at any time prior to execution of the Agreement, determine whether the documents, information and/ or payments in relation to the Conditions to Auction have been submitted or received from the Bidder in accordance with the requirements of this Scheme Document. The Subsidiary reserves the right to cancel this LOI, disqualify the Bidder and forfeit

the Process Fee and the Bid Security if it is of the opinion that the requirements of the Scheme Document and the LOI in this regard have not been duly satisfied.

The Authorised Signatory should also procure 2 (two) sets of non-judicial stamp papers of **Rs. 100** each for execution of the Agreement and submit the same at the time of execution of the Agreement.

This letter of intent is only indicative of the quantity allocated to you and any entitlement to such quantities of coal are subject to execution of the Agreement in accordance with the provisions of the Scheme Document and satisfaction of the conditions prescribed in the Agreement.

*02/15/12/21*  
\_\_\_\_\_  
General Manager, (M&S)  
CCL, Ranchi

Acknowledged and Accepted by:

\_\_\_\_\_  
(Signatory)

*Note: In the event that this letter of intent is not signed and the contents hereof are not acknowledged and accepted by the Successful Bidder within 75 days hereof, the Successful Bidder shall no longer be entitled to receive the Allocated Quantity and we shall have the right to forfeit the Bid Security.*

#### **Schedule 1: Details of Specified End Use Plant and Allocated Quantity**

**Name of Successful Bidder: M/s USHA MARTIN LIMITED**

**Details of Specified End Use Plant**

<b>Name of Specified End Use Plant</b>	<b>Address</b>	<b>Capacity</b>
USHA MARTIN LIMITED	Purulia Road Tatisilwai Ranchi Pin 835103, RANCHI, 835103, Jharkhand	20 MW

**Allocated Quantity under the CPP subsector auction under Tranche V and other details pertaining thereto**

<b>S. No.</b>	<b>Subsidiary Name</b>	<b>Primary Source</b>	<b>Secondary Source(s)</b>	<b>Mode of Despatch</b>	<b>Allocated quantity* (Tonnes)</b>	<b>Winning Premium</b>
1	CCL	Gidi C OCP	NA	ROAD	30000	0 (0.00% of Notified Price)

\*Allocated Quantity shall be distributed across each year in accordance with clause 3.5.2(k)





सेंट्रल कोलफील्ड्स लिमिटेड

(भारत सरकार का एक उपक्रम)

विक्रय एवं विपणन विभाग

दरभंगा हाउस, रांची 834 029

CENTRAL COALFIELDS LIMITED

(Govt. of India Undertaking)

Sales & Marketing Department

DARBHANGA HOUSE, RANCHI

टेलीफोन/Telefax- 0651-2360369 वेबसाइट/Website- www.ccl.gov.in

**By Regd. Post and e-mail**

**LOI**

Ref No. CCL/HQ/C-4/FSA/CP (T-V)/2021-22/ 2619

Dated: 15.12.2021

16

To,  
Sri Chandan Jha,  
M/s Usha Martin Limited,  
Purulia Road Tatisilwai Ranchi Pin 835103, RANCHI, 835103, Jharkhand,  
e-mail: chandan\_jha@ushamartin.co.in

**Subject: Declaration of Successful Bidder pursuant to CPP sub-sector Auction Process.**

Dear Sir/ Madam,

Pursuant to the Scheme Document dated October'21 ("**Scheme Document**"), I am directed to declare **M/s Usha Martin Limited** as the Successful Bidder for award of the quantity of coal specified in **Schedule 1**. This declaration is in pursuance of the provisions contained in the Scheme Document and the fulfilment of Conditions to Auction and the Bid submitted by the Bidder for the Specified End Use Plant: **Usha Martin Limited (20 MW)**.

Details of the Specified End Use Plant, allocated quantity of coal, the Winning Premium and other details are set out in **Schedule 1**.

Pursuant to Clause 7 and Clause 3.5.4 of the Scheme Document, the Successful Bidder is required to submit the Performance Security within the timelines stipulated in Clause 3.5.4 and also provide the documents specified in Annexure IX to the *relevant Subsidiary* within **75 days** of issuance of this letter of intent.

The Successful Bidder shall be required to depute an Authorised Signatory to execute the Fuel Supply Agreement (the "**Agreement**") on its behalf. The Authorised Signatory deputed by the Successful Bidder should be present at the aforementioned time and place along with: (a) original documents confirming identity of such person along with a self-attested photocopy of the same; (b) true copy of power of attorney in favour of the Authorised Signatory to execute the Agreement including the extract of the charter documents or documents such as a board or shareholders resolution authorizing the execution of such power of attorney and/or the Agreement.

The Subsidiary may, at any time prior to execution of the Agreement, determine whether the documents, information and/ or payments in relation to the Conditions to Auction have been submitted or received from the Bidder in accordance with the requirements of this Scheme Document. The Subsidiary reserves the right to cancel this LOI, disqualify the Bidder and forfeit

the Process Fee and the Bid Security if it is of the opinion that the requirements of the Scheme Document and the LOI in this regard have not been duly satisfied.

The Authorised Signatory should also procure 2 (two) sets of non-judicial stamp papers of **Rs. 100** each for execution of the Agreement and submit the same at the time of execution of the Agreement.

This letter of intent is only indicative of the quantity allocated to you and any entitlement to such quantities of coal are subject to execution of the Agreement in accordance with the provisions of the Scheme Document and satisfaction of the conditions prescribed in the Agreement.

*15/12/21*  
\_\_\_\_\_  
General Manager, (M&S)  
CCL, Ranchi

Acknowledged and Accepted by:

\_\_\_\_\_  
(Signatory)

*Note: In the event that this letter of intent is not signed and the contents hereof are not acknowledged and accepted by the Successful Bidder within 75 days hereof, the Successful Bidder shall no longer be entitled to receive the Allocated Quantity and we shall have the right to forfeit the Bid Security.*

**Schedule 1: Details of Specified End Use Plant and Allocated Quantity**

**Name of Successful Bidder: M/s USHA MARTIN LIMITED**

**Details of Specified End Use Plant**

Name of Specified End Use Plant	Address	Capacity
USHA MARTIN LIMITED	Purulia Road Tatisilwai Ranchi Pin 835103, RANCHI, 835103, Jharkhand	20 MW

**Allocated Quantity under the CPP subsector auction under Tranche V and other details pertaining thereto**

S. No.	Subsidiary Name	Primary Source	Secondary Source(s)	Mode of Despatch	Allocated quantity* (Tonnes)	Winning Premium
1	CCL	Amrapali OCP	Magadh OCP	ROAD	66000	0 (0.00% of Notified Price)

\*Allocated Quantity shall be distributed across each year in accordance with clause 3.5.2(k)



ENVIRONMENTAL LABORATORY, 2X10 MW CPP, TATISILWAI, RANCHI (JHARKHAND) – 835103

E-Mail: [tanmay\\_roy@ushamartin.co.in](mailto:tanmay_roy@ushamartin.co.in), [cpp\\_wtprnc@ushamartin.co.in](mailto:cpp_wtprnc@ushamartin.co.in)

OFFICE NO: 06517180 683, 06517180 689 Fax: 06517180 409/410

## **TEST REPORT**

### **AMBIENT AIR MONITORING**

#### **Sample Details**

#### **Client Details**

Date & Time of Sampling : 15.03.2025 & 9:35 AM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/MAR/WTP/07	Client Address : Tatisilwai, Ranchi
Type of Sample : Ambient Air	State : Jharkhand
Duration of Sampling : 24 hrs	Client Code : UML/CPP/03
Sample Drawn by : Mr Anil Pradhan	Date of Receipt of Sample : 16.03.2025
Sample Plan Reference : UML/DOC/110	Date of testing : 17.03.2025
Testing Condition : 25.2°C, 56%RH	Test Performed : At Permanent Lab
Unique Lab Report No : TC1466725000000224F	Date of Report : 31.03.2025
Location of Sample : Latitude -23.368945° & Longitude -85.424699°	
Environmental condition during sampling:	
Weather Condition: Clear	Relative Humidity (%) : 59.0
Ambient Temperature (°C) : 25.2	Atmospheric Pressure (mmHg): 762
Wind Speed (km/hr.) : 3.0	Wind Direction : NNE

#### **REPORT**

Sl.No.	Sample Location	Parameter	Unit	Desirable limit *	Results	Test Method
1	WTP AREA	Particulate Matter PM2.5	µg/M <sup>3</sup>	≤60.00	31.22	BASED ON CPCB GUIDE VOLUME -1
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	73.26	IS:5182 (PT – 23)
3		Sulphur Dioxide	µg/M <sup>3</sup>	≤80.00	16.12	IS:5182 (PT – 2)
4		Nitrogen Dioxide	µg/M <sup>3</sup>	≤80.00	19.11	IS:5182 (PT – 6)

\* Norms: National Ambient Air Quality Standards as per CPCB vide notification dated November, 2009 for industrial, Residential, Rural and other area are followed:

Declaration:-

1. Results reported are valid at the time of testing and under the stated testing condition.
2. Result in the report refers to only the sample mentioned above in Sample ID.
3. There is no Addition to/ Deviation from/ Exclusion from the Test Method mentioned above.
4. This report shall not be reproduced except in full, without the written permission of environmental laboratory, CPP, UML, Ranchi.

TESTED BY  
(Suraj Acharya)

REVIEWED BY  
(Tanmay Roy)

AUTHORISED BY  
(Tanmoy Sinha)

CPP (2 X 10MW)  
USHAMARTIN LTD.  
TATISIL WAI, RANCHI  
JHARKHAND, PIN-835103



ENVIRONMENTAL LABORATORY, 2X10 MW CPP, TATISILWAI, RANCHI (JHARKHAND) – 835103

E-Mail: [tanmay\\_roy@ushamartin.co.in](mailto:tanmay_roy@ushamartin.co.in), [cpp\\_wtprnc@ushamartin.co.in](mailto:cpp_wtprnc@ushamartin.co.in)

OFFICE NO: 06517180 683, 06517180 689 Fax: 06517180 409/410

## TEST REPORT

### AMBIENT AIR MONITORING

#### Sample Details

#### Client Details

Date & Time of Sampling	: 16.03.2025 & 10:35 AM	Client Name	:Usha Martin Limited (CPP Div)
Sample ID	: CPP/ENV/MAR/MTG/08	Client Address	: Tatisilwai, Ranchi
Type of Sample	: Ambient Air	State	: Jharkhand
Duration of Sampling	: 24 hrs	Client Code	: UML/CPP/03
Sample Drawn by	: Mr Anil Pradhan	Date of Receipt of Sample	: 17.03.2025
Sample Plan Reference	: UML/DOC/110	Date of testing	: 18.03.2025
Testing Condition	: 25.2°C , 56% RH	Test Performed	: At Permanent Lab
Unique Lab Report No	: TC1466725000000225F	Date of Report	: 31.03.2025
Location of Sample	: Latitude -23.369941° & Longitude -85.424154°		
Environmental condition during sampling:			
Weather Condition: Clear	Relative Humidity (%) : 58.0	Atmospheric Pressure (mmHg): 760	
Ambient Temperature (°C) : 25.5	Wind Speed (km/hr.) : 2.0	Wind Direction : NNW	

#### REPORT

Sl.No.	Sample Location	Parameter	Unit	Desirable limit *	Results	Test Method
1	MATERIAL GATE	Particulate Matter PM2.5	µg/M <sup>3</sup>	≤60.00	38.15	BASED ON CPCB GUIDE VOLUME -1
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	87.59	IS:5182 (PT – 23)
3		Sulphur Dioxide	µg/M <sup>3</sup>	≤80.00	14.58	IS:5182 (PT – 2)
4		Nitrogen Dioxide	µg/M <sup>3</sup>	≤80.00	16.94	IS:5182 (PT – 6)

\* Norms: National Ambient Air Quality Standards as per CPCB vide notification dated November, 2009 for industrial, Residential, Rural and other area are followed:

Declaration:-

- Results reported are valid at the time of testing and under the stated testing condition.
- Result in the report refers to only the sample mentioned above in Sample ID.
- There is no Addition to/ Deviation from/ Exclusion from the Test Method mentioned above.
- This report shall not be reproduced except in full, without the written permission of environmental laboratory, CPP, UML, Ranchi.

TESTED BY  
(Suraj Acharya)

REVIEWED BY  
(Tanmay Roy)

AUTHORISED BY  
(Tanmoy Sinha)



ENVIRONMENTAL LABORATORY, 2X10 MW CPP, TATISILWAI, RANCHI (JHARKHAND) – 835103

E-Mail: [tanmay\\_roy@ushamartin.co.in](mailto:tanmay_roy@ushamartin.co.in), [cpp\\_wtprnc@ushamartin.co.in](mailto:cpp_wtprnc@ushamartin.co.in)

OFFICE NO: 06517180 683, 06517180 689 Fax: 06517180 409/410

## **TEST REPORT**

### **AMBIENT AIR MONITORING**

#### **Sample Details**

#### **Client Details**

Date & Time of Sampling : 17.03.2025 & 9:45 AM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/MAR/SLF/09	Client Address : Tatisilwai, Ranchi
Type of Sample : Ambient Air	State : Jharkhand
Duration of Sampling : 24 hrs	Client Code : UML/CPP/03
Sample Drawn by : Mr Anil Pradhan	Date of Receipt of Sample : 18.03.2025
Sample Plan Reference : UML/DOC/110	Date of testing : 19.03.2025
Testing Condition : 25.5°C, 56 %RH	Test Performed : At Permanent Lab
Unique Lab Report No : TC146672500000226F	Date of Report : 31.03.2025
Location of Sample : Latitude -23.368101° & Longitude -85.425012°	
Environmental condition during sampling:	
Weather Condition: Clear	Relative Humidity (%) : 57.0
Ambient Temperature (°C) : 26.0	Atmospheric Pressure (mmHg): 758
	Wind Speed (km/hr.) : 3.0
	Wind Direction : NNE

#### **REPORT**

Sl.No.	Sample Location	Parameter	Unit	Desirable limit *	Results	Test Method
1	SLF AREA	Particulate Matter PM2.5	µg/M <sup>3</sup>	≤60.00	35.98	BASED ON CPCB GUIDE VOLUME -1
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	86.22	IS:5182 (PT – 23)
3		Sulphur Dioxide	µg/M <sup>3</sup>	≤80.00	10.83	IS:5182 (PT – 2)
4		Nitrogen Dioxide	µg/M <sup>3</sup>	≤80.00	12.83	IS:5182 (PT – 6)

\* Norms: National Ambient Air Quality Standards as per CPCB vide notification dated November, 2009 for industrial, Residential, Rural and other area are followed:

#### **Declaration:-**

- Results reported are valid at the time of testing and under the stated testing condition.
- Result in the report refers to only the sample mentioned above in Sample ID.
- There is no Addition to/ Deviation from/ Exclusion from the Test Method mentioned above.
- This report shall not be reproduced except in full, without the written permission of environmental laboratory, CPP, UML, Ranchi

TESTED BY  
(Sural Acharya)

REVIEWED BY  
(Tanmay Roy)

AUTHORISED BY  
(Tanmoy Sinha)

**ENVIRONMENTAL LABORATORY, 2X10 MW CPP, TATISILWAI, RANCHI (JHARKHAND) – 835103**
**E-Mail: [tanmay\\_roy@ushamartin.co.in](mailto:tanmay_roy@ushamartin.co.in), [cpp\\_wtprnc@ushamartin.co.in](mailto:cpp_wtprnc@ushamartin.co.in)**
**OFFICE NO: 06517180 683, 06517180 689 Fax: 06517180 409/410**

## TEST REPORT NOISE MONITORING

### Sample Details

### Client Details

Date of Sampling	: 16.03.2025 -21.03.2025	Client Name	: Usha Martin limited (CPP)
Sample ID	: CPP/ENV/MAR/NOS/04	Client Address	: Tatisilwai, Ranchi
Type of Sample	: Noise(Ambient)	Client Code	:UML/CPP/03
Duration of Sampling	: 24hrs (Per Location)	State	: Jharkhand
Sample Drawn by	: Mr. Anil Kr. Pradhan	Test Performed	: At Site
Sample Plan Reference	: UML/DOC/110	Date of Report	: 31.03.2025
UNIQUE LAB REPORT NO	: TC1466725000000229F	Sample Description	: Measurement of Noise at UML CPP Area
Location of Sample : Lat -23.368945° & Longi -85.424699°		Reference Test Method	: IS 9989

## TEST REPORT OF NOISE LEVEL

Monitoring Date	16.03.2025 - 21.03.2025					
Station Location	Noise Results in dB (A) Day			Noise Results in dB (A) Night		
	AVG	MIN	MAX.	AVG.	MIN.	MAX.
CPP MAIN GATE	71.80	62.50	78.80	69.70	56.60	73.60
CPP WTP AREA	69.50	64.50	72.90	65.80	58.90	70.80
CPP COAL YARD AREA	71.90	68.20	74.80	69.90	66.80	71.50

### Ambient Air Quality Norms in Respect of Noise


AREA	CATEGORY AREA	NOISE LEVEL in dB(A)	
		DAY TIME	NIGHT TIME
A	INDUSTRIAL AREA	75	70
B	COMMERCIAL AREA	65	55
C	RESIDENTIAL AREA	55	45
D	SILENCE ZONE	50	40

### **Declaration:-**

- Results reported are valid at the time of testing and under the stated testing condition.
- This report shall not be reproduced except in full, and without the written permission of environmental laboratory, CPP, UML, Ranchi.

  
TESTED BY  
(Suraj Acharya)

  
CHECKED BY  
(Tanmay Roy)

  
AUTHORISED BY  
(Tanmoy Sinha)



**UML/F/27 (N)**
**ENVIRONMENTAL LABORATORY, 2X10 MW CPP, TATISILWAI, RANCHI (JHARKHAND) – 835103**  
 E-Mail: [tanmay\\_roy@ushamartin.co.in](mailto:tanmay_roy@ushamartin.co.in), [cpp\\_wtprnc@ushamartin.co.in](mailto:cpp_wtprnc@ushamartin.co.in)
**OFFICE NO: 06517180 683, 06517180 689 Fax: 06517180 409/410**

### TEST REPORT NOISE MONITORING

#### Client Details

#### Sample Details

Date of Sampling	: 16.03.2025 - 21.03.2025	Client Name	: Usha Martin limited (CPP)
Sample ID	: CPP/ENV/MAR/NOS/04	Client Address	: Tatisilwai, Ranchi
Type of Sample	: Noise	Client Code	: UML/CPP/03
Duration of Sampling	: 24hrs (Per Location)	State	: Jharkhand
Sample Drawn by	: Mr. Anil Kr. Pradhan	Test Performed	: At Site
Sample Plan Reference	: UML/DOC/110	Date of Report	: 31.03.2025
UNIQUE LAB REPORT NO	: TC1466725000000229F	Sample Description	: Measurement of Noise at UML CPP Area
Location of Sample : Lat -23.368945° & Longi -85.424699°		Reference Test Method	: IS 9989

### TEST REPORT OF NOISE LEVEL

Monitoring Date Station Location	16.03.2025 - 21.03.2025					
	Noise Results in dB (A) Day			Noise Results in dB (A) Night		
	AVG	MIN	MAX.	AVG.	MIN.	MAX.
CPP BOILER AREA	83.00	74.80	86.60	80.60	74.60	84.80
CPP ADM BUILDING	78.90	70.40	80.60	68.80	64.70	70.80
CPP TG AREA	84.20	72.80	86.90	80.60	72.60	84.60

#### Ambient Air Quality Norms in Respect of Noise


AREA	CATEGORY AREA	NOISE LEVEL in dB(A)	
		DAY TIME	NIGHT TIME
A	INDUSTRIAL AREA	75	70
B	COMMERCIAL AREA	65	55
C	RESIDENTIAL AREA	55	45
D	SILENCE ZONE	50	40

#### **Declaration:-**

- Results reported are valid at the time of testing and under the stated testing condition.
- This report shall not be reproduced except in full, without the written permission of environmental laboratory, CPP, UML, Ranchi.

  
TESTED BY  
(Suraj Acharya)

  
CHECKED BY  
(Tanmay Roy)

  
AUTHORISED BY  
(Tanmoy Sinha)

CPP (2 X 10MW)  
USHAMARTIN LTD.  
TATISIL WAI, RANCHI  
JHARKHAND, PIN-835103

.....END OF THE REPORT.....



ENVIRONMENTAL LABORATORY, 2X10 MW CPP, TATISILWAI, RANCHI (JHARKHAND) – 835103

E-Mail: [tanmay\\_roy@ushamartin.co.in](mailto:tanmay_roy@ushamartin.co.in), [cpp\\_wtprnc@ushamartin.co.in](mailto:cpp_wtprnc@ushamartin.co.in)

OFFICE NO: 06517180 683, 06517180 689 Fax: 06517180 409/410

## TEST REPORT OF DRINKING WATER

### Sample Details

### Client Details

Date & Time of Sampling : 12.03.2025 & 11:35 AM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : MAR/ CPP/DW/09	Client Address : Tatisilwai, Ranchi
Type of Sample : CPP Drinking Water	State : Jharkhand
Sample Drawn by : Mr Gourhari Samanta	Client Code : UML/ CPP/03
Sample Plan Reference : UML/DOC/110	Date of Receipt of Sample : 12.03.2025
Testing Condition : 24.8°C , 56 % RH	Date of testing : 12.03.25-18.03.25
Unique Lab Report No : TC1466724000000191F	Test Performed : At Permanent Lab
Condition Of Sample : Clear Water	Date of Report : 31.03.2025
Sample Location : Lat -23.368273° & Longitude -85.424467°	Volume Of Sample : 3 litre
Environmental Condition : Clear weather , No rainfall during sampling	

## REPORT

SL.NO.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		6.50 to 8.50	6.85	APHA 24 <sup>TH</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	mg/l	500.00	58.0	APHA 24 <sup>TH</sup> Edition-2540 C
3	Turbidity	NTU	1.00	0.10	APHA 24 <sup>TH</sup> Edition-2130 B
4	Alkalinity	mg/l	200.00	12.0	IS:3025, (part-23)
5	Acidity	mg/l		10.0	IS:3025, (part-22)
6	Total Hardness (as CaCO <sub>3</sub> )	mg/l	300.00	20.0	IS:3025, (part-21)
7	Calcium (as CaCO <sub>3</sub> )	mg/l	75.00	16.0	IS:3025, (part-40)
8	Magnesium (as CaCO <sub>3</sub> )	mg/l	30.00	4.0	APHA 24 <sup>TH</sup> Edition -3500Mg B
9	Chloride	mg/l	250.00	16.0	IS:3025, (part-32)
10	Sulphate	mg/l	200.00	1.1	APHA 24 <sup>TH</sup> Edition-4500 SO <sub>4</sub> <sup>2-</sup> E
11	Residual free chlorine	mg/l	0.20	0.10	IS:3025, (part-26)
12	Iron	mg/l	0.30	0.07	IS:3025, (part-53)
13	Nitrate	mg/l	45.00	1.25	IS:3025, (part-34)
14	Nitrite	mg/l		0.05	APHA 24 <sup>TH</sup> Edition-4500NO <sub>2</sub> B
15	Silica	mg/l		3.7	IS:3025, (part-35)
16	Temperature	°C		24.8	IS:3025, (part-9)

**\*\* IS: 10500(2012): Drinking Water Specification**

**\*\* IS: 3025 (Part-1): -Water Sampling Method**

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TESTED BY  
(Suraj Acharya)

REVIEWED BY  
(Tanmay Roy)

AUTHORISED BY  
(Tanmoy Sinha)



### TEST REPORT OF DRINKING WATER

#### Sample Details

#### Client Details

Date & Time of Sampling : 12.03.2025 & 11:35 AM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : MAR/CPP/DW/09	Client Address : Tatisilwai, Ranchi
Type of Sample : CPP Drinking Water	State : Jharkhand
Sample Drawn by : Mr Gourhari Samanta	Client Code : UML/CPP/03
Sample Plan Reference : UML/DOC/110	Date of Receipt of Sample : 12.03.2025
Testing Condition : 24.8°C, 56 % RH	Date of testing : 12.03.25-18.03.25
Unique Lab Report No : TC1466724000000191F	Test Performed : At Permanent Lab
Condition Of Sample : Clear Water	Date of Report : 31.03.2025
Sample Location : Lat -23.368273° & Longitude -85.424467°	Volume Of Sample : 3 litre
Environmental Condition : Clear weather, No rainfall during sampling	

### TEST REPORT

SL.NO.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Colour	Hazen	5.00	5.00
2	Odour		AGREEABLE	AGREEABLE
3	Taste		AGREEABLE	AGREEABLE
4	Fluoride	mg/l	1.000	0.09
5	Manganese	mg/l	0.100	0.05
6	Mercury	mg/l	0.001	BDL
7	Lead	mg/l	0.010	BDL
8	Zinc	mg/l	5.000	0.10
9	Coliform Organisms	MPN/100 ml	NIL	NIL

IS: 10500(2012): Drinking Water Specification

\*\* IS: 3025 (Part-1): -Water Sampling Method


\*\*BDL- Below Detection Limit (Mercury 0.006 PPM & Lead-0.06 ppm).

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TESTED BY  
(Suraj Acharya)

  
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(Tanmay Roy)

  
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..... END OF THE REPORT .....



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**OFFICE NO: 06517180 683, 06517180 689 Fax: 06517180 409/410**

## TEST REPORT OF GROUND WATER

### Sample Details

### Client Details

Date & Time of Sampling : 05.02.2025 & 11:35 AM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : FEB/CPP/GW/10	Client Address : Tatisilwai, Ranchi
Type of Sample : CPP Ground Water	State : Jharkhand
Sample Drawn by : Mr Gourhari Samanta	Client Code : UML/CPP/03
Sample Plan Reference : UML/DOC/110	Date of Receipt of Sample : 05.02.2025
Testing Condition : 24.5°C, 57 % RH	Date of testing : 05.02.25-12.02.25
Unique Lab Report No : TC1466724000000164F	Test Performed : At Permanent Lab
Condition Of Sample : Clear Water	Date of Report : 28.02.2025
Sample Location : Lat -23.372405° & Longitude -85.422385°	Volume Of Sample : 3 litre
Environmental Condition : Clear weather , No rainfall during sampling	

### REPORT

SL.NO.	Characteristics	Unit	Results	Test Method
1	pH		8.02	APHA 24 <sup>TH</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	mg/l	596.0	APHA 24 <sup>TH</sup> Edition-2540 C
3	Turbidity	NTU	1.10	APHA 24 <sup>TH</sup> Edition-2130 B
4	Alkalinity	mg/l	128.0	IS:3025, (part-23)
5	Acidity	mg/l	10.0	IS:3025, (part-22)
6	Total Hardness (as CaCO <sub>3</sub> )	mg/l	232.0	IS:3025, (part-21)
7	Calcium (as CaCO <sub>3</sub> )	mg/l	172.0	IS:3025, (part-40)
8	Magnesium (as CaCO <sub>3</sub> )	mg/l	60.0	APHA 24 <sup>TH</sup> Edition -3500Mg B
9	Chloride	mg/l	251.0	IS:3025, (part-32)
10	Sulphate	mg/l	3.52	APHA 24 <sup>TH</sup> Edition-4500 SO <sub>4</sub> <sup>2-</sup> E
11	Residual free chlorine	mg/l	0.10	IS:3025, (part-26)
12	Iron	mg/l	0.31	IS:3025, (part-53)
13	Nitrate	mg/l	3.52	IS:3025, (part-34)
14	Nitrite	mg/l	0.05	APHA 24 <sup>TH</sup> Edition-4500NO <sub>2</sub> B
15	Silica	mg/l	22.12	IS:3025, (part-35)
16	Temperature	°C	24.60	IS:3025, (part-9)

\* IS: 3025 (Part-1): -Water Sampling Method

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## TEST REPORT OF GROUND WATER

### Sample Details

### Client Details

Date & Time of Sampling	: 05.02.2025 & 11:35 AM	Client Name	: Usha Martin Limited (CPP Div)
Sample ID	: FEB/CPP/GW/10	Client Address	: Tatisilwai, Ranchi
Type of Sample	: CPP Ground Water	State	: Jharkhand
Sample Drawn by	: Mr Gourhari Samanta	Client Code	: UML/CPP/03
Sample Plan Reference	: UML/DOC/110	Date of Receipt of Sample	: 05.02.2025
Testing Condition	: 24.5°C, 57 % RH	Date of testing	: 05.02.25-12.02.25
Unique Lab Report No	: TC1466724000000164F	Test Performed	: At Permanent Lab
Condition Of Sample	: Clear Water	Date of Report	: 28.02.2025
Sample Location	: Lat -23.372405° & Longitude -85.422385°	Volume Of Sample	: 3 litre
Environmental Condition : Clear weather , No rainfall during sampling			

### TEST REPORT

SL.NO.	Characteristics	Unit	Results
1	Colour	Hazen	5.00
2	Odour		AGREEABLE
3	Taste		AGREEABLE
4	Fluoride	mg/l	0.09
5	Manganese	mg/l	0.06
6	Mercury	mg/l	0.05
7	Lead	mg/l	BDL
8	Zinc	mg/l	0.71

\* IS: 3025 (Part-1): -Water Sampling Method


\*\*BDL- Below Detection Limit (Lead-0.06 ppm).

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TESTED BY  
(Suraj Acharya)

  
REVIEWED BY  
(Tanmay Roy)

  
AUTHORISED BY  
(Tanmoy Sinha)

CPP (2 X 10MW)  
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TATISIL WAI, RANCHI  
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..... END OF REPORT .....



**ENVIRONMENTAL LABORATORY, 2X10 MW CPP, TATISILWAI, RANCHI (JHARKHAND) – 835103****E-Mail: [tanmay\\_roy@ushamartin.co.in](mailto:tanmay_roy@ushamartin.co.in), [cpp\\_wtprnc@ushamartin.co.in](mailto:cpp_wtprnc@ushamartin.co.in)****OFFICE NO: 06517180683, 06517180 689 Fax: 06517180 409/410****TEST REPORT**  
**STACK MONITORING****Sample Details****Client Details**

Date & Time of Sampling : 18.03.2025 & 9:30 AM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/MAR/STACK/19	Client Address : Tatisilwai, Ranchi
Type of Sample : STACK	Client Code : UML/CPP/03
Duration of Sampling : 1.0 hrs	State : Jharkhand
Sample Drawn by : Mr. Anil kr. Pradhan	Date of Receipt of Sample : 18.03.2025
Sample Plan Reference : UML/DOC/110	Date of testing : 19.03.2025
Testing Condition : 25.2°C, 55 %RH	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC1466725000000228F	Date of Report : 31.03.2025


**TEST REPORT**

Sl. No.	Description	Unit	Desirable limit	Results	Test Method
1	Location			CHIMNEY	
2	Area of Stack	(M <sup>2</sup> )		1.485	
3	Temperature of flue gas	(°C)		135.0	IS 11255, (part-3)
4	Average Velocity	(m/s)		21.02	IS 11255, (part-3)
6	Particulate matter	(mg/Nm <sup>3</sup> )	50.00	31.75	IS 11255, (part-1)
7	Sulphur Dioxide	(mg/Nm <sup>3</sup> )	350.00	88.70	IS 11255, (part-2)
8	Nitrogen Oxides	(mg/Nm <sup>3</sup> )	350.00	122.13	IS 11255, (part-7)

**Note: - General Emission standards as per Gazette of India, published by ministry of Environment & forests, 19<sup>th</sup> May, 1993 are for PM- 150 mg/Nm<sup>3</sup>.**

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**(Suraj Acharya)**  
**CHECKED BY**  
**(Tanmay Roy)**  
**AUTHORISED BY**  
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## TEST REPORT OF COAL

### Sample Details

### Client Details

<b>Date &amp; Time of Sampling</b> : 20.03.2025 & 07:30 AM	<b>Client Name</b> : Usha Martin Limited (CPP Div)
<b>Sample ID</b> : CPP/MAR/01	<b>Client Address</b> : Tatisilwai, Ranchi
<b>Type of Sample</b> : COAL	<b>State</b> : Jharkhand
<b>Duration of Sampling</b> : 1 hrs	<b>Client Code</b> : UML/CPP/03
<b>Sample Drawn by</b> : Gourhari Samanta	<b>Date of Receipt of Sample</b> : 20.03.2025
<b>Sample Plan Reference</b> : UML/DOC/110	<b>Date of testing</b> : 20.03.2025
<b>Testing Condition</b> : 24.8°C, 57 % RH	<b>Test Performed</b> : At Permanent Lab
<b>Unique Lab Report No</b> : TC1466725000000230F	<b>Date of Report</b> : 31.03.2025

## COAL TEST REPORT


Sl.no.	Analysis	unit	Results	Test method
1	AIR DRYING MOISTURE	%	<b>3.31</b>	IS : 1350 (part-1)
2	ASH	%	<b>38.41</b>	IS : 1350 (part-1)
3	VM	%	<b>25.11</b>	IS : 1350 (part-1)
4	GCV	Kcal/kg	<b>4465</b>	IS : 1350 (part-2)

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(Suraj Acharya)

  
REVIEWED BY  
(Tanmay Roy)

  
AUTHORISED BY  
(Tanmoy Sinha)

## TEST REPORT OF GROUND WATER

### Sample Details

### Client Details

Date & Time of Sampling : 12.03.2025 & 11:40 AM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : MAR/CPP/GW/10	Client Address : Tatisilwai, Ranchi
Type of Sample : CPP Ground Water	State : Jharkhand
Sample Drawn by : Mr Gourhari Samanta	Client Code : UML/CPP/03
Sample Plan Reference : UML/DOC/110	Date of Receipt of Sample : 12.03.2025
Testing Condition : 24.8°C, 56 % RH	Date of testing : 12.03.25-18.03.25
Unique Lab Report No : TC1466724000000192F	Test Performed : At Permanent Lab
Condition Of Sample : Clear Water	Date of Report : 31.03.2025
Sample Location : Lat -23.372405° & Longitude -85.422385°	Volume Of Sample : 3 litre
Environmental Condition : Clear weather , No rainfall during sampling	

## REPORT

SL.NO.	Characteristics	Unit	Results	Test Method
1	pH		7.50	APHA 24 <sup>TH</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	mg/l	612.0	APHA 24 <sup>TH</sup> Edition-2540 C
3	Turbidity	NTU	0.10	APHA 24 <sup>TH</sup> Edition-2130 B
4	Alkalinity	mg/l	120.0	IS:3025, (part-23)
5	Acidity	mg/l	24.0	IS:3025, (part-22)
6	Total Hardness (as CaCO <sub>3</sub> )	mg/l	200.0	IS:3025, (part-21)
7	Calcium (as CaCO <sub>3</sub> )	mg/l	170.0	IS:3025, (part-40)
8	Magnesium (as CaCO <sub>3</sub> )	mg/l	30.0	APHA 24 <sup>TH</sup> Edition -3500Mg B
9	Chloride	mg/l	220.0	IS:3025, (part-32)
10	Sulphate	mg/l	2.10	APHA 24 <sup>TH</sup> Edition-4500 SO <sub>4</sub> <sup>2-</sup> E
11	Residual free chlorine	mg/l	0.10	IS:3025, (part-26)
12	Iron	mg/l	0.17	IS:3025, (part-53)
13	Nitrate	mg/l	2.78	IS:3025, (part-34)
14	Nitrite	mg/l	0.05	APHA 24 <sup>TH</sup> Edition-4500NO <sub>2</sub> B
15	Silica	mg/l	4.38	IS:3025, (part-35)
16	Temperature	°C	24.7	IS:3025, (part-9)

\* IS: 3025 (Part-1): -Water Sampling Method

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(Suraj Acharya)

REVIEWED BY  
(Tanmay Roy)

AUTHORISED BY  
(Tanmoy Sinha)



## TEST REPORT OF GROUND WATER

### Sample Details

### Client Details

Date & Time of Sampling : 12.03.2025 & 11:40 AM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : MAR/CPP/GW/10	Client Address : Tatisilwai, Ranchi
Type of Sample : CPP Ground Water	State : Jharkhand
Sample Drawn by : Mr Gourhari Samanta	Client Code : UML/CPP/03
Sample Plan Reference : UML/DOC/110	Date of Receipt of Sample : 12.03.2025
Testing Condition : 24.8°C, 56 % RH	Date of testing : 12.03.25-18.03.25
Unique Lab Report No : TC1466724000000192F	Test Performed : At Permanent Lab
Condition Of Sample : Clear Water	Date of Report : 31.03.2025
Sample Location : Lat -23.372405° & Longitude -85.422385°	Volume Of Sample : 3 litre
Environmental Condition : Clear weather , No rainfall during sampling	

### TEST REPORT

SL.NO.	Characteristics	Unit	Results
1	Colour	Hazen	5.00
2	Odour		AGREEABLE
3	Taste		AGREEABLE
4	Fluoride	mg/l	0.08
5	Manganese	mg/l	0.09
6	Mercury	mg/l	0.06
7	Lead	mg/l	BDL
8	Zinc	mg/l	0.78

**\* IS: 3025 (Part-1): -Water Sampling Method**


**BDL- Below Detection Limit (Lead-0.06 ppm).**

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AUTHORISED BY  
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CPP (2 X 10MW)  
USHAMARTIN LTD.  
TATISIL WAI, RANCHI  
JHARKHAND. PIN-835103

..... END OF REPORT .....



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## TEST REPORT OF ETP WATER

### Sample Details

### Client Details

Date & Time of Sampling : 12.03.2025 & 11:45 AM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : MAR/CPP/EW/11	Client Address : Tatisilwai, Ranchi
Type of Sample : CPP Treated Effluent Water	State : Jharkhand
Sample Drawn by : Mr Gourhari Samant	Client Code : UML/CPP/03
Sample Plan Reference : UML/DOC/110	Date of Receipt of Sample : 12.03.2025
Testing Condition : 24.8°C, 56 % RH	Date of testing : 12.03.25-18.03.25
Unique Lab Report No : TC1466724000000193F	Test Performed : At Permanent Lab
Condition Of Sample : Clear Water	Date of Report : 31.03.2025
Sample Location : Lat -23.368312° & Longitude -85.424200°	Volume Of Sample : 3 litre
Environmental Condition : Clear weather , No rainfall during sampling	

### REPORT

SL.NO.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		5.50 – 9.00	7.25	APHA 24 <sup>TH</sup> Edition-4500 H <sup>+</sup>
2	Total Suspended solids	mg/l	100.00	9.55	APHA 24 <sup>TH</sup> Edition-2540 D
3	Dissolved oxygen	mg/l		5.50	IS:3025, (part-38)
4	Oil & Grease	mg/l	10.00	8.8	IS:3025, (part-39)
5	Total Dissolved solids	mg/l		824.0	APHA 24 <sup>TH</sup> Edition-2540 C

**\*\* General standards for discharge of environmental pollutants vide Ministry of Env. And Forests notification dated 19<sup>th</sup> May, 1993 and amendment dated 31<sup>st</sup> December, 1993.**


**\*\* IS: 3025 (Part-1): -Water Sampling Method**

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REVIEWED BY  
(Tanmay Roy)

  
AUTHORISED BY  
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### TEST REPORT OF ETP WATER

#### Sample Details

#### Client Details

Date & Time of Sampling : 12.03.2025 & 11:45 AM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : MAR/CPP/EW/11	Client Address : Tatisilwai, Ranchi
Type of Sample : CPP Treated Effluent Water	State : Jharkhand
Sample Drawn by : Mr Gourhari Samant	Client Code : UML/CPP/03
Sample Plan Reference : UML/DOC/110	Date of Receipt of Sample : 12.03.2025
Testing Condition : 24.8°C , 56 % RH	Date of testing : 12.03.25-18.03.25
Unique Lab Report No : TC1466724000000193F	Test Performed : At Permanent Lab
Condition Of Sample : Clear Water	Date of Report : 31.03.2025
Sample Location : Lat -23.368312° & Longitude -85.424200°	Volume Of Sample : 3 litre
Environmental Condition : Clear weather , No rainfall during sampling	

### TEST REPORT

SL.NO.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Lead	mg/l	0.10	0.08
2	Zinc	mg/l	5.00	0.20
3	Phosphate( as P )	mg/l	5.00	0.80
4	Chloride	mg/l	-	188.0
5	BOD, 3 days at 27 °C	mg/l	30.00	5.0
6	COD	mg/l	250.00	25.00
7	Iron	mg/l	3.00	0.30
8	Manganese	mg/l	2.00	0.32

**\*\* General standards for discharge of environmental pollutants vide Ministry of Env. And Forests notification dated 19<sup>th</sup> May, 1993 and amendment dated 31<sup>st</sup> December, 1993.**

**\*\* IS: 3025 (Part-1): -Water Sampling Method**

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REVIEWED BY  
(Tanmay Roy)

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(Tanmoy Sinha)

CPP (2 X 10MW)  
USHAMARTIN LTD.  
TATISIL WAI, RANCHI  
JHARKHAND, PIN-835103

..... END OF THE REPORT .....



## TEST REPORT OF SURFACE WATER

### Sample Details

### Client Details

Date & Time of Sampling : 11.03.2025 & 9:35 AM	Client Name : Usha Martin Limited (wwr Div)
Sample ID : MAR/WWR/SRUS/02	Client Address : Tatisilwai, Ranchi
Type of Sample : Surface Water (SRR, Near CPP sub.)	State : Jharkhand
Sample Drawn by : Mr Gourhari Samanta	Client Code : UML/WWR/01
Sample Plan Reference : UML/DOC/110	Date of Receipt of Sample : 11.03.2025
Testing Condition : 24.8°C, 55 % RH	Date of testing : 11.03.25-16.03.25
Unique Lab Report No : TC1466724000000178F	Test Performed : At Permanent Lab
Condition Of Sample : Clear Water	Date of Report : 31.03.2025
Sample Location : Lat -23.372405° & Long -85.422385°	Volume Of Sample : 3 litre
Environmental Condition : Clear weather, No rainfall during sampling(0.5 KM UPSTREAM)	

## REPORT

SL.NO.	Characteristics	Unit	Results	Test Method
1	pH		7.23	APHA 24 <sup>TH</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	mg/l	722.0	APHA 24 <sup>TH</sup> Edition-2540 C
3	Turbidity	NTU	25.93	APHA 24 <sup>TH</sup> Edition-2130 B
4	Alkalinity	mg/l	250.0	IS:3025, (part-23)
5	Acidity	mg/l	24.0	IS:3025, (part-22)
6	Total Hardness (as CaCO <sub>3</sub> )	mg/l	260.0	IS:3025, (part-21)
7	Calcium (as CaCO <sub>3</sub> )	mg/l	180.0	IS:3025, (part-40)
8	Magnesium (as CaCO <sub>3</sub> )	mg/l	80.0	APHA 24 <sup>TH</sup> Edition -3500Mg B
9	Chloride	mg/l	160.0	IS:3025, (part-32)
10	Sulphate	mg/l	50.58	APHA 24 <sup>TH</sup> Edition-4500 SO <sub>4</sub> <sup>2-</sup> E
11	Residual free chlorine	mg/l	<1.0	IS:3025, (part-26)
12	Iron	mg/l	2.51	IS:3025, (part-53)
13	Nitrate	mg/l	2.89	IS:3025, (part-34)
14	Nitrite	mg/l	0.15	APHA 24 <sup>TH</sup> Edition-4500NO <sub>2</sub> B
15	Silica	mg/l	43.2	IS:3025, (part-35)
16	Temperature	°C	25.2	IS:3025, (part-9)


\* IS: 3025 (Part-1): -Water Sampling Method

### **Declaration:-**

- Results reported are valid at the time of testing and under the stated testing condition.
- Result in the report refers to only the sample submitted by the client.
- This report shall not be reproduced except in full, without the written permission of environmental laboratory, CPP, UML, Ranchi

  
TESTED BY  
(Suraj Acharya)

  
REVIEWED BY  
(Tanmay Roy)

  
AUTHORISED BY  
(Tanmoy Sinha)



## TEST REPORT OF SURFACE WATER

### Sample Details

### Client Details

Date & Time of Sampling : 11.03.2025 & 9:35 AM	Client Name : Usha Martin Limited (wwr Div)
Sample ID : MAR/WWR/SRUS/02	Client Address : Tatisilwai, Ranchi
Type of Sample : Surface Water (SRR, Near CPP sub.)	State : Jharkhand
Sample Drawn by : Mr Gourhari Samanta	Client Code : UML/WWR/01
Sample Plan Reference : UML/DOC/110	Date of Receipt of Sample : 11.03.2025
Testing Condition : 24.8°C , 55 % RH	Date of testing : 11.03.25-16.03.25
Unique Lab Report No : TC1466724000000178F	Test Performed : At Permanent Lab
Condition Of Sample : Clear Water	Date of Report : 31.03.2025
Sample Location : Lat -23.372405° & Long -85.422385°	Volume Of Sample : 3 litre
Environmental Condition : Clear weather , No rainfall during sampling(0.5 KM UPSTREAM)	

### TEST REPORT

SL.NO.	Characteristics	Unit	Results
1	Colour	Hazen	50.00
2	Odour		DISAGREEABLE
3	Fluoride	mg/l	0.10
4	Manganese	mg/l	0.60
5	Copper	mg/l	0.02
6	Lead	mg/l	BDL
7	Zinc	mg/l	6.93

\* IS: 3025 (Part-1): -Water Sampling Method


\*\*BDL- Below Detection Limit (Lead-0.06 ppm).

#### Declaration:-

- Results reported are valid at the time of testing and under the stated testing condition.
- Result in the report refers to only the sample submitted by the client.
- This report shall not be reproduced except in full, without the written permission of environmental laboratory, CPP, UML, Ranchi

  
TESTED BY  
(Suraj Acharya)

  
REVIEWED BY  
(Tanmay Roy)

  
AUTHORISED BY  
(Tanmoy Sinha)

CPP (2 X 10MW)  
USHAMARTIN LTD.  
TATISIL WAI, RANCHI  
JHARKHAND. PIN-835103

ENVIRONMENTAL LABORATORY, 2X10 MW CPP, TATISILWAI, RANCHI (JHARKHAND) – 835103

E-Mail: [tanmay\\_roy@ushamartin.co.in](mailto:tanmay_roy@ushamartin.co.in), [cpp\\_wtprnc@ushamartin.co.in](mailto:cpp_wtprnc@ushamartin.co.in)

OFFICE NO: 06513051 683, 06513051 689 Fax: 06513051 409/410

**TEST REPORT****MERCURY EMISSION RESULTS IN CAPTIVE POWER PLANT(CPP)****Sample Details****Client Details**

Date & Time of Sampling	: 12.02.2021	Client Name	: Usha Martin Limited (CPP Div)
Sample ID	: CPP/ENV/FEB/STACK/Hg	Client Address	: Tatisilwai, Ranchi
Type of Sample	: STACK (MERCURY)	Client Code	: UML/CPP/03
Duration of Sampling	: 2 hrs	State	: Jharkhand
Sample Drawn by	: Mr. Suraj Kumar	Date of Receipt of Sample	: 12.02.2021
Sample Plan Reference	: UML/DOC/110	Date of testing	: 12.02.2021
Testing Condition	: 25.2°C, 56%RH	Test Performed	: At Permanent Lab
		Date of Report	: 20.02.2021

**TEST REPORT**

Sl. No.	Location	Parameter	Results Micro gm/Nm <sup>3</sup>	Remarks
1	ESP Outlet	Mercury	**BDL	

\*\*BDL denotes Below Detection Level for Hg < 0.03 Micro gm/Nm<sup>3</sup>TESTED BY  
(Manish Kumar)CHECKED BY  
(Tanmay Roy)AUTHORISED BY  
(Tanmoy Sinha)CPP (2 X 10MW)  
USHAMARTIN LTD.  
TATISIL WAI, RANCHI  
JHARKHAND. PIN-835103

## TEST REPORT

Test Report No. : SRL/UM-CPP/FEB-AAQ/24/274	Report Issue Date : 03.02.2024
Application No. : 18252588	Application Date : 10.01.2024

Customer's Name & Address	Sample Details
Captive Power Plant (2 x 10MW) Of M/s Usha Martin Limited. At.: Tatisilwai, P.S.: Taisilwai, District: Ranchi- 835 103, Jharkhand.	Type of Sample : Ambient Air
	Date of Sampling : 29.01.2024 to 30.01.2024
	Sample Receipt Date : 30.01.2024
	Analysis Date : 31.01.2024 to 02.02.2024
	Sample Collected by : SRL Team

Weather Condition: Clear	Ambient Temperature ( <sup>0</sup> C) : 23	Relative Humidity (%) : 62
Atmospheric Pressure (mmHg): 762	Wind Speed (km/hr.) : 9.0	Wind Direction : NNW

## TEST RESULTS

Sl. No.	Parameters	Unit	Results	Standards Value*	Test Method
<b>1. Sampling Location: Near CPP Entrance Gate</b>					
I.	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	82.00	100	IS: 5182 (Part- 23) 2006
II.	Respirable Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	46.00	60	IS: 5182 (Part- 24) 2006
III.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	08.40	80	IS: 5182 (Part- 2) 2001
IV.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	20.00	80	IS: 5182 (Part- 6) 2006
<b>2. Sampling Location: Near Coal Yard</b>					
I.	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	89.00	100	IS: 5182 (Part- 23) 2006
II.	Respirable Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	50.00	60	IS: 5182 (Part- 24) 2006
III.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	07.80	80	IS: 5182 (Part- 2) 2001
IV.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	21.00	80	IS: 5182 (Part- 6) 2006
<b>3. Sampling Location: Near Boiler No. 139</b>					
I.	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	86.00	100	IS: 5182 (Part- 23) 2006
II.	Respirable Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	48.00	60	IS: 5182 (Part- 24) 2006
III.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	08.00	80	IS: 5182 (Part- 2) 2001
IV.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	20.50	80	IS: 5182 (Part- 6) 2006

\*National Ambient Air Quality Standards (NAAQS).

Note:

- The results relate only to the items sampled and tested.
- Test report shall not be reproduced except in full without written approval of the laboratory.



(Dr. Niraj Kumar Singh)  
Authorized Signatory

-- End of the Report --





# SCIENTIFIC RESEARCH LABORATORY

An ISO 9001:2015 (QMS) & OHSMS 45001:2018 Certified Organization

Accredited by NABL & Jharkhand State Pollution Control Board

Analytical & Environmental Engineering Laboratory

Address: C-144, Aman Green City, Road No. 04, Pundag, Ranchi- 834 004, Jharkhand

Tele No.: 0651-4057244, Mobile: 94701 30700, E-mail: srlranchilab@gmail.com



TC 11163

## TEST REPORT

Issued to:	Test Report No.	: SRL/UM-CPP/FEB-N/24/275
Captive Power Plant (2 x 10MW) Of M/s Usha Martin Limited. At.: Tatisilwai, P.S.: Taisilwai, District: Ranchi- 835 103, Jharkhand..  (Application No.: 18252588 dt. 10.01.2024)	Report Issue Date	: 03.02.2024
	Date of Sampling	: 29.01.2024 & 30.01.2024
	Sample Receipt Date	: 30.01.2024
	Analysis Date	: 31.01.2024

Nature and Description of Sample	: Ambient Noise
Weather Condition	: Clear
Atmospheric Temperature ( $^{\circ}$ C)	: 23
Name of the Sample Collecting Officer	: SRL Team
Any Other Information (if any)	: Nil

## AMBIENT NOISE MONITORING DATA

Sl. No.	Monitoring Location	Date of Monitoring	Sound Pressure Level, dB(A)	
			Day Time (06.00-22.00 hr.)	Night Time (22.00-06.00 hr.)
1.	Near CPP Entrance Gate	29.01.2024 & 30.01.2024	58.4	44.7
2.	Near Coal Yard	29.01.2024 & 30.01.2024	49.2	46.5
3.	Near Boiler No. 139	29.01.2024 & 30.01.2024	64.7	62.8

Norms: National Ambient Air Quality Standards (NAAQS) in respect of Noise as per CPCB, New Delhi,  
Industrial Area : Day Time 75 dB(A) Leq and Night Time 70 dB(A) Leq  
Commercial Area : Day Time 65 dB(A) Leq and Night Time 55 dB(A) Leq  
Residential Area : Day Time 55 dB(A) Leq and Night Time 45 dB(A) Leq  
Silence Zone : Day Time 50 dB(A) Leq and Night Time 40 dB(A) Leq

Niraj

Dr. Niraj Kumar Singh  
(Authorized Signatory)

-- End of the Report --

## TEST REPORT

Issued to:	Test Report No.	: SRL/UM-CPP/FEB-WW/24/277
Captive Power Plant (2 x 10MW) Of M/s Usha Martin Limited. At.: Tatisilwai, P.S.: Taisilwai, District: Ranchi- 835 103, Jharkhand.  (Application No.: 18252588 dt. 10.01.2024)	Report Issue Date	: 03.02.2024
	Sample Receipt Date	: 30.01.2024
	Analysis Date	: 30.01.2024 to 02.02.2024
	Lab. Sample No.	: WW-26

Type of Sample	: Effluent Water	Sample Quantity	: 1 Litre
Date of Sampling	: 30.01.2024	Sample Condition	: Refrigerated
Weather Condition	: Clear	Sampling Method	: APHA 23 <sup>rd</sup> Edn. 1060B
Location of Sample	: Adm. Building Outlet	Sample Collected by	: SRL Team

## TEST RESULTS

Sl. No.	Parameters	Results	Regulatory Standard			Test Method
			Inland Surface Water Body	Public Sewer	On Land Irrigation	
1.	Temperature, °C	25.5	-	-	-	APHA 23 <sup>rd</sup> Edn. 2550 B
2.	Conductivity, µmhos/cm	1024	-	-	-	APHA 23 <sup>rd</sup> Edn. 2510 B
3.	pH	7.3	5.5 – 9.0	5.5 – 9.0	5.5 – 9.0	APHA 23 <sup>rd</sup> Edn. 4500H+ B
4.	Total Suspended Solids, mg/l	28	100	600	200	APHA 23 <sup>rd</sup> Edn. 2540 D
5.	Total Dissolved Solids, mg/l	858	-	-	-	APHA 23 <sup>rd</sup> Edn. 2540 C
6.	BOD (3 days at 27 °C), mg/l	24	30	350	100	IS: 3025 (Part 44) 1993
7.	COD (as O <sub>2</sub> ), mg/l	176	250	-	-	IS: 3025 (Part 58) 2006
8.	Oil & Grease, mg/l	<5	10	20	10	IS: 3025 (Part 39) 1991

### Note:

1. The results relate only to the items sampled and tested.
2. Test report shall not be reproduced except in full, without written approval of the laboratory.
3. Sample shall be discarded after 15 days from the date of issue of the test reports.



(Dr. Niraj Kumar Singh)  
(Authorized Signatory)

-- End of the Report --

## TEST REPORT

Issued to:	Test Report No.	: SRL/UM-CPP/FEB-ST/24/276
Captive Power Plant (2 x 10MW) Of M/s Usha Martin Limited.	Report Issue Date	: 03.02.2024
At.: Tatisilwai, P.S.: Taisilwai, District: Ranchi- 835 103, Jharkhand.	Date of Sampling	: 29.01.2024
(Application No.: 18252588 dt. 10.01.2024).	Sample Receipt Date	: 30.01.2024
	Analysis Date	: 31.01.2024 to 02.02.2024

### A. INFORMATION OF PHYSICAL CHARACTERISTICS OF STACK

Stack number if any	: Stack – 1 (Power Plant)
Emission due to	: Burning of Coal
Material of construction of stack	: Concreate
Shape of stack	: Circular
Whether stack is provided with permanent platform/ ladder	: Yes
Height of the stack from ground level (in meter)	: 70
Height of the sampling point from ground level (in meter)	: 22
Diameter of the stack at sampling point (in meter)	: 1.485
Fuel used & Consumption	: Coal & 480 MT/Day
Production Capacity	: 10 MW x 2
Stack connected to	: Pollution Control System (ESP)

### B. DETAIL OF STACK EMISSION SAMPLING AND TEST REPORT

Parameters (Units)	Results	Test Method
Ambient air temperature ( $^{\circ}\text{C}$ )	24	IS 11255 (Part 3): 2008 RA 2013
Stack gas temperature, ( $^{\circ}\text{C}$ )	112	IS 11255 (Part 3): 2008 RA 2013
Barometric Pressure, (mm of Hg)	762	-
Stack gas velocity, (m/sec)	11.86	IS 11255 (Part 3): 2008 RA 2013
Volumetric flow rate (in $\text{Nm}^3/\text{hr}$ ),	57,272	IS 11255 (Part 3): 2008 RA 2013
Emission rate (in kg/hr)	2.405	IS 11255 (Part 3): 2008 RA 2013
Conc. of Carbon dioxide, (% v/v by Orsat method)	<0.2	IS 13270; 1992 RA 2019
Conc. of Carbon monoxide, (% v/v by Orsat method)	6.2	IS 13270; 1992 RA 2019
Conc. of Sulphur Dioxides, $\text{mg}/\text{Nm}^3$	242	IS: 11255 (Part 2) 1985 RA 2019
Conc. of Oxides of Nitrogen, $\text{mg}/\text{Nm}^3$	68	IS: 11255 (Part 7) 2005 RA 2017
Conc. of Particulate Matter, $\text{mg}/\text{Nm}^3$	42	IS: 11255 (Part 1) 1985 RA 2019

Remarks: Dust concentration was found  $42 \text{ mg}/\text{Nm}^3$  against prescribed limit of  $50 \text{ mg}/\text{Nm}^3$ .

Note:

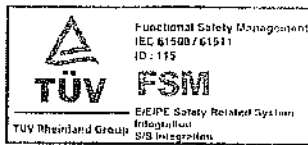
- The results relate only to the items sampled and tested.
- Test report shall not be reproduced except in full without written approval of the laboratory.



Dr. Niraj Kumar Singh  
(Authorized Signatory)

-- End of Report --





Yokogawa India Limited  
MERLIN INFINITE  
Office No. 710, 7th Floor, Plot No. 51,  
Block - DN, Salt Lake City, Sector - V,  
Kolkata - 700 091  
Tel : 91-33-30546000

YOKOGAWA

**Ref: YIL/CSD/VAS/KOL/P/14313**  
**05/05/2015**

To

**USHA MARTIN INDUSTRIES LIMITED**  
**TATISILWAI, RANCHI-835103**  
**Jharkhand**

**Kind attn.: Mr. Arindam dasgupta**

Dear Sir,

**Subject: - Submission of detailed document of Usha Martin Industries Limited, Ranchi, Jharkhand for Yokogawa India Limited's Online Emission monitoring to JSCB and CPCB server**

We would like to inform you that with reference to your order no: **PP/30066/14-15** dated **26/02/15** we have successfully commissioned at Usha Martin Industries Limited for Online Emission data Monitoring data Transmission to JSPCB on 28/03/15. All the Online emission data are updating in server satisfactorily without interruption. Yokogawa Server continuously monitoring all the data in Server if any discrepancy found then same will be rectified at the earliest.

Please find enclosed here with the detailed documents for your information and future record. So request you to kindly acknowledge the same.

We would like to thank you for your kind cooperation extended to us.

**Thanking you**

**Truly yours For Yokogawa India Limited**

**Sukanta Das**

**Customer Service Division**

**Mob: 9748754923**

**Email: Sukanta.das@in.yokogawa.com**



MINUTES OF MEETING		vigilant plant:																			
CUSTOMER	USHA MARTIN LTD.																				
MEETING LOCATION	CPP, JATISILWAI, RANCHI, JHARKHAND																				
DATE	March 28, 2015																				
PURPOSE OF THE MEETING	Addition of new tags for remote transmission & monitoring on CPCB site																				
W.O.																					
CUSTOMER		PARTICIPANTS																			
Mr. M.S. Mandal Mr. V. Kumar		YOKOGAWA Mr. Dharendra Dagar (Yokogawa India Ltd) MOB. - 9996952300																			
SLNO	DESCRIPTION	ACTION BY	REMARKS																		
1	M/s YIL Engineer visited the site on 28-03-15 to add and configure new tags for remote transmission & monitoring on CPCB site.	M/S YIL																			
2	The following new tags are added through Gate OPC and the same tags are added at CPCB site: <table border="1"> <thead> <tr> <th>TAG</th> <th>RANGE</th> <th>UNIT</th> </tr> </thead> <tbody> <tr> <td>1 ETP PH</td> <td>0-14</td> <td>pH</td> </tr> <tr> <td>2 ETP TEMP</td> <td>0-150</td> <td>degC</td> </tr> <tr> <td>3 ETP SPTSS</td> <td>0-1000</td> <td>mg/ltr</td> </tr> <tr> <td>4 B1T1312</td> <td>0-300</td> <td>degC</td> </tr> <tr> <td>5 B2T1312</td> <td>0-300</td> <td>degC</td> </tr> </tbody> </table>	TAG	RANGE	UNIT	1 ETP PH	0-14	pH	2 ETP TEMP	0-150	degC	3 ETP SPTSS	0-1000	mg/ltr	4 B1T1312	0-300	degC	5 B2T1312	0-300	degC	M/S YIL	
TAG	RANGE	UNIT																			
1 ETP PH	0-14	pH																			
2 ETP TEMP	0-150	degC																			
3 ETP SPTSS	0-1000	mg/ltr																			
4 B1T1312	0-300	degC																			
5 B2T1312	0-300	degC																			
3	The newly added tags showing proper value after configuration and under observation. Usha Martin will update if any further modification required for tags configured.	M/S YIL																			
4	YIL request to Usha Martin to provide detail for Limit value as per norms set up by State pollution control so that we can display same at our site.	M/S YIL																			
5	M/s YIL Engineer is leaving site on 28/03/2015 after completing above activities.	M/S YIL																			
CUSTOMER		YOKOGAWA																			



*[Handwritten signature]*





## Yokogawa India Limited

Regd. Office :  
Plot No. 96,  
Electronics City, Hosur Road  
Bangalore - 560 100. India

Tel : 0091-80-41586000  
Fax : 0091-80-28521445

YOKOGAWA

To,

Date:24/12/2013

Usha Martin Ltd.

(Wire Ropes and Specialty products division)

Works: Tatisilwal, Ranchi 835103

Jharkhand,India.

Sub: Completion certificate for Online connectivity of CEMS data to JSPCB

Ref: PO.No. 201552 and RP/30059/13-14 dated 4/9/2013

### To whomsoever it concerns

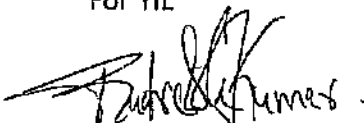
With reference to the above mentioned purchase order, we would like to inform that M/s Yokogawa India Ltd. has successfully completed supply ,supervision, erection and commissioning of emission data connectivity to JSPCB for their verification and evaluation. Pls refer to the Minutes Of Meeting signed accordingly by M/s UML.

The performance is found to be satisfactory.

With this M/s Yokogawa has successfully completed and handed over the job in accordance with the Usha Martin Ltd's requirement on 13-12-2013

Thanking you,

For YIL

  
Mr.B.Rudresh Kumar  
Assistant Manager

# ♦ MINUTES OF MEETING

vigilantplant®

♦ CUSTOMER NAME	♦ M/s Ushamatin ltd		
♦ MEETING LOCATION	♦ Power-Plant- Ranchi		
♦ PURPOSE OF MEETING	♦ Connectivity to JPCB		
♦ MEETING DATE	13-12-2013	♦ SERVICE REQUEST NO	KOL/13/A/CA/31354
♦ P.O. No	20152	♦ P.O. DATE	06/09/2013
♦ 1 <sup>st</sup> VISIT START FROM	14-11-2013	♦ 1 <sup>st</sup> VISIT END ON	15-12-2013
♦ 2 <sup>nd</sup> VISIT START FROM	27-11-2013	♦ 2 <sup>nd</sup> VISIT END ON	30-11-2013
♦ 3 <sup>rd</sup> VISIT START FROM	12-12-2013	♦ 3 <sup>rd</sup> VISIT END ON	13-12-2013

## Member presents on Meeting

FROM UML		FROM YOKOGAWA
Mr Arindam Dasgupta		Mr Prabir Mandal
		Mr. Abhishek Dutta

## ♦ During the visit YIL engineer carried out the following jobs.

SL No	DESCRIPTION	REMARKS
1.	Emission control system is connected with OPC station (HIS0163).Through OPC Interface, required tags are configured so that we can receive those tags to the prescribed system. Here through Gate OPC, tags fetching.	
2.	Through DATA LOGGER this tags are coming to the assigned system. All the assigned tags are coming successfully through DATA LOGGER in the System. Web monitoring software was installed in this system and through this software this tags are given to JPCB server via Internet.	
3.	BSNL router was used for Internet. For making this system safe from Internet virus, one UTM box- Cyberroam was installed between Internet router and logger server system.	
4.	UTM box was configured successfully. Port A is assigned for system and Port B was assigned for Internet router. Kindly do'nt Interchanges the port or disturb the configuration, because UTM box configuration was very critical one and once it get disturb, then JPCB will not able to see the data. Backup of UTM box was taken and saved in drive D and UTM box is also protected with password	
5.	The assigned data are checked through internet, all are successfully going to JPCB. Customer wants a certification regarding this connectivity aeap for onward submission to the Ministry of Enviroment..	
6.	Engineer of YIL left the site on 13/12/2013	

<i>Arindam Dasgupta</i> 13/12/13	<i>Abhishek Dutta</i> 13/12/13
M/s UML	M/s YIL



**Office of the Director, Ground Water Directorate, Jharkhand, Ranchi.**

"Abhiyantran Bhawan", Kutcheri Chowk, Ranchi-834001, Phone-91-2217141/Fax-91-2214830

**E Mail-gwi.rwh@gmail.com**

Letter No. **G.W.D. 380** / Ranchi. dated.. **25.11.2011** /

From,

S.L.S. JAGESHWAR,  
Director,  
Ground Water Directorate, Jharkhand.  
Water Resources Department,  
Govt. of Jharkhand.

To,

Sri N.K. Patodia  
Assistant Vice-President  
Usha Martin Limited  
Wire Ropes & Specialty Products Division  
Tatisilvai-835103  
Ranchi, Jharkhand.

**Sub:- Approval of "Rain Water Harvesting" Plan submitted by you for your Captive Power Plant.**

**Ref:-** Your letter no.UML/CPP/EMS/GWD/RWH/11/04 dated 25.10.2011.

Sir,

Kindly refer to your Design & Plan of "Rain Water Harvesting" for Ground Water Recharging prepared by KRG Rain Water Foundation, Chennai along with associated Hydrological, Hydro- meteorological and Geophysical data of the area, submitted to this office vide your letter no-UML / CPP / EMS / GWD / RWH/11/04 dated 25.10.2011.

Your Rain Water Harvesting for Ground Water Recharging Plan envisages to recharge **77963M<sup>3</sup>** of run-off-rainwater every year, resulting in Groundwater Recharge of the order of **66269M<sup>3</sup>** annually. The recharge structures incorporated in the plan consists of **One Storage Cum Percolation Pond (SCP)** of dimensionon (Top dia-40060M and bottom dia 31.40M) and a depth of 4.60M. 4 nos. of **Recharge shafts** are also proposed in the bed of the SCP. Additionally, one no. of **Dug cum bore-well** and one no. **Recharge well with one no. Recharge shaft** is also provided for in the plan. One number of **contour bund** has also been proposed.

Demand of water in the plant, as stated in the said plan is 624M<sup>3</sup> per day ie. 227760M<sup>3</sup> per annum, which is being lifted from Subarnarakha River. In accordance with prevailing rules of Water Resources Department, Govt. of Jharkhand, more than 2% of above quantity (227760M<sup>3</sup>) must be recharged. 66,269M<sup>3</sup> of rainfall runoff is proposed to be recharged per year, as per the plan submitted, after the construction of recharge structures against the mandatory requirement of 4600M<sup>3</sup>.



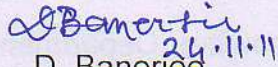
For further recharge, it is suggested to provide depth of recharge shafts of various recharge structures uniformly as 80M instead of 70M, 50M and 30M as proposed in the submitted Rain Water Harvesting Plan.

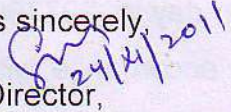
The plan submitted by you for "Rain Water Harvesting" is approved subject to the following conditions: -

1. Your entire "Rain Water Harvesting" Project for Ground Water Recharging must be completed within 60 days of the approval of the plan.
2. Prior to Construction of proposed check-dam over nalla, necessary consent of the concerned authority must be obtained.
3. The Proposed Rain Water Harvesting Recharge Pits (Linear Artificial Recharge Structure) must be constructed as per standard design of filter materials and boring in the pits, annexed with this letter.
4. The Ground Water Level in at least 3-4 dug wells in and around your plant, must be monitored in the first week of every month and the data be necessarily made available to this office.
5. The quality of Ground Water in and around the plant area must be monitored periodically (every 6 months) and the data be necessarily made available to this office and to Jharkhand State Pollution Control Board, Dhurwa, Ranchi.
6. The Recharge Pits (LARS) to be constructed by you must be maintained properly, for all times to come. The top-coarse sand-layer in the pit, must be changed every alternate year, before the onset of monsoon.
7. The Completion Report of the entire project within the stipulated period (60 days), must be communicated to this office as well as to Jharkhand State Pollution Control Board, immediately after completion of the project.
8. **"This Plant has elaborate Rain Water Harvesting Facility"**, must also be displayed prominently at the entrance and other places of your plant, in order to sensitize more people about Rain Water Harvesting.

**Enclosures: -(1) Technically Approved Rain Water Harvesting Plan.**

**(2) Standard Plan and Design of Recharge Pits.**

  
D. Banerjee  
(Deputy Director)  
Ground Water Directorate, Ranchi.

Yours sincerely,  
  
Director,  
Ground Water Directorate,  
Jharkhand, Ranchi.





**Usha Martin Limited**

**(Wire Ropes & Speciality Products Division)**

Works : Tatisilwai - 835 103, Ranchi, Jharkhand,

Ph.: (00 91 651) 226 52 41/3051400/430, Fax : (00 91 651) 3051409/410

Ref : UML/EMS/GWD/RWH/12/02

Date : 15/10/2012

To

The Director,  
Ground Water Directorate, Jharkhand,  
Water Resources Department,  
"Abhiyantran Bhawan", Kutchery Chowk,  
Ranchi - 834 001

Kind Attn. of : Mr. SLS Jageslwar

Sub : To submit Completion Report on Rain Water Harvesting Plan

Ref : i) Our Letter Ref. No. UML/CPP/EMS/GWD/RWH/12/01 dtd. 03.05.2012 and  
ii) Your Letter Ref. No. GWD - 197/ Ranchi dtd. 21.04.2012

Dear Sir,

Further to our above letter (ref. No. UML/CPP/EMS/GWD/RWH/12/01 dtd. 03/05/2012), we would like to place following facts before your good self for kind information :

We are pleased to inform you that the entire construction activities of Rain Water Harvesting Plan had already been completed by M/s. KRG Rainwater Foundation, Chennai. In this connection, M/s. KRG Rainwater Foundation, Chennai has also issued a "Completion Certificate" as well as a "Completion Report". We are hereby enclosing two sets of the above Certificate and Report for your kind perusal please. We are very confident that the Installation of Rainwater Harvesting Systems will augment the recharge of Ground Water and also improve the quality of Ground Water of not only the entire factory premises but also the surrounding communities to a considerable extent. In this connection, we would like to mention that the Land of CPP is low level land and as such we have developed the RWH System in this area. The system is working perfectly.

Being submitted for favour of information and in compliance of above referred letter.

Thanking you,

Yours' faithfully,  
for USHA MARTIN LIMITED,  
(Wire Ropes & Speciality Products Division)

*NK Patodia*  
(NK Patodia)

Asst. Vice President

Encl : As stated above



Certified as an approved  
Manufacturer by  
Lloyd's Register of Shipping



Certified as an approved  
Manufacturer by  
Det Norske Veritas



Certified by the  
American Petroleum Institute  
Licence number 9A - 0017



TYPE APPROVAL PROGRAM  
Certified as an approved  
Manufacturer by  
American Bureau of Shipping



REF.UML/CPP/JSPCB/25-26/04

Dated: 07.05.2025

To,  
Member Secretary  
Jharkhand State Pollution Control Board,  
HEC complex, Dhurwa, Ranchi-834004

Subject: Annual Fly Ash Utilization Report for FY24-25

Respected Sir,  
We hereby furnish the Fly Ash generation & utilization report for the year 2024-25 for our  
2X10 MW Captive Power Plant, Tatisilwai, Ranchi as detailed below:

MONTH	QTY GENERATED (MT)	QTY UTILIZED (MT)	UTILIZATION IN %
		OWN/3RD PARTY UTILIZATION	
April'24	8262.38	7510.78	90.90
May'24	8327.53	8287.25	99.52
June'24	8201.82	8719.46	106.31
July'24	7731.97	7855.59	101.60
August'24	7515.50	4513.35	60.05
Sept'24	4798.26	7406.95	154.37
Oct'24	7995.66	7997.01	100.02
Nov'24	8122.95	5691.34	70.06
Dec'24	8167.08	6416.70	78.57
Jan'25	7895.00	12262.71	155.32
Feb'25	4330.97	4443.24	102.59
March'25	3804.73	3656.29	96.10
<b>Total</b>	<b>85153.85</b>	<b>84760.67</b>	<b>99.54</b>

Submitted for your kind information and record.

Thanking you,  
Yours Sincerely,  
For Usha Martin Limited  
(2X10MW Captive Power Plant)



Tanmoy Sinha  
(General Manager-CPP)

CPP (2 X 10MW)  
USHAMARTIN LTD.  
TATISILWAI, RANCHI  
JHARKHAND - 834004

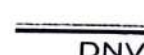
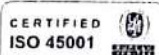
Copy to: The Regional Officer, Jharkhand State Pollution Control Board



**USHA MARTIN LIMITED**  
CIN : L31400WB1986PLC091621



This product has been designed, developed or manufactured under a management system certified by Bureau Veritas against ISO 9001, ISO 14001 & ISO 45001.



Certified as an approved Manufacturer by DNV



Certified as an approved Manufacturer by Lloyd's Register marine & offshore India LLP.



Certified as an approved Manufacturer by American Bureau of Shipping.

Regd. Office: 2A, Shakespeare Sarani, Kolkata - 700 071, India

Works: Tatisilwai, 835103, Ranchi, Jharkhand, India



(00 91 651) 7180400  
(00 91 651) 2265241



contact@ushamartin.co.in  
www.ushamartin.com

F/OP-3-145/01 Rev. 3, dated 18/09/2024

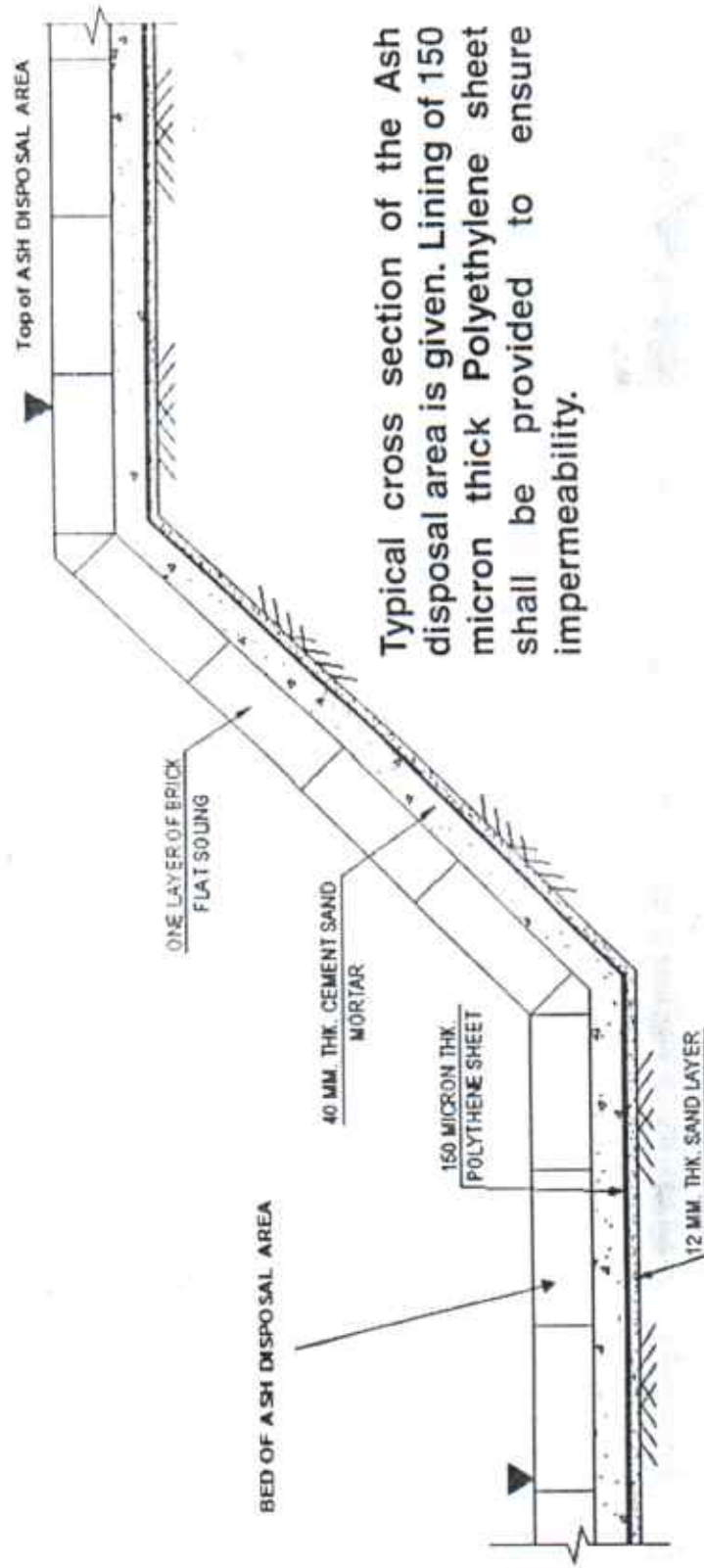


## TOR POINT 22 :

Details regarding ash pond impermeability including soil analysis report and whether it would be lined, if so details of the lining etc.

### Compliance:

#### TYPICAL PART CROSS SECTION OF THE ASH DISPOSAL AREA SHOWING LINING DETAIL TO PREVENT LEACHING



Typical cross section of the Ash disposal area is given. Lining of 150 micron thick Polyethylene sheet shall be provided to ensure impermeability.







## Monthly Report: Usha Martin Foundation (UMF) CSR Activities in March 2025

Mentioned below is the monthly CSR activities report for March 2025. The Usha Martin Foundation (UMF) continued its commitment to driving social impact through its six key pillars: Natural Resource Management (NRM), Health, Nutrition & Sanitation, Infrastructure Development, Education & Learning, Livelihood & Financial Inclusion, and Empowering Differently Aabled. The foundation's activities in March reflect its focus on empowering communities and enhancing sustainable development. Below is a detailed summary of the activities carried out under each pillar:

### 1. Natural Resource Management (NRM)

- **Jal Minar Repairs:**  
Two Jal Minars were repaired in Ulatu in March, ensuring a consistent clean water supply to local communities.



**Jal Minar repaired in Village**

- **Farmer Monthly Meeting:** A meeting was organized at the SPCD Conference Hall, in which Agriculture specialist and assistant professor Ms. K. Kumari (XIIS), along with forty farmers, gained knowledge and discussed the queries of seasonal varieties of vegetable seed and plants.



**Farmers, along with Ms. K. Kumari in a discussion**



- Summer Crop- The seasonal summer seeds (muskmelon & watermelon) have successfully germinated, and the plants have begun to bloom, with small fruits.



- Organic Food Stall

As part of Usha Martin Foundation's ongoing commitment to empowering local farmers, we are pleased to report significant progress. The farmers associated with the foundation, who received seeds and grafted plants, are successfully growing a variety of crops. Among the key products being harvested and sold are organic strawberries and mushrooms. These farmers have given set up a dedicated stall at the factory gate, library, etc, where they are selling their fresh, organic fruits to factory employees.



## 2. Health, Nutrition & Sanitation:

- 08 General Health Camps (Tati East, Angara, Hesal, Chatra, Baram, Berwari, Baheya, & Hahe) were organised to address various health concerns such as body aches, pain, skin conditions, eye issues, dental problems, viral infections, diabetes, hypertension, etc, the camps took place, and 292 community members have benefitted.



- The details for the month's model village initiatives, focusing on ANC, institutional delivery, and anemia (Aarogyam Project), are as follows:

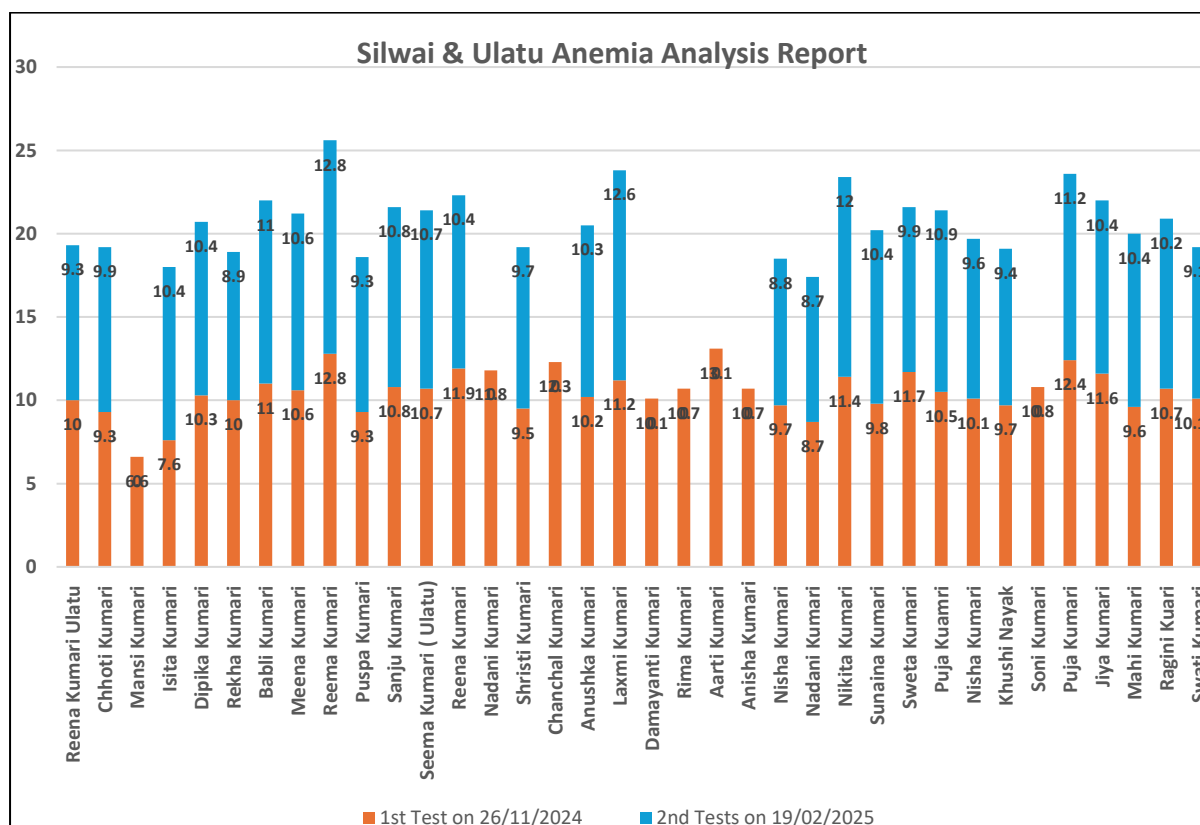


Fig No. (i)



The data has been taken from the school situated in Silwai, and the girls are between 10 and 14 years of age. As shown in the figure above, a few girls showed either no change or a decrease in their hemoglobin levels, such as:

- Nisha Kumari (Ulatu) decreased from 9.7 to 8.8.
- Sweta Kumari decreased from 11.7 to 9.9.
- Rekha Kumari decreased from 10 to 8.9.
- Nadani Kumari remained the same at 8.7.

Other girls need to be monitored and frequently visited about their food habits and cleanliness.

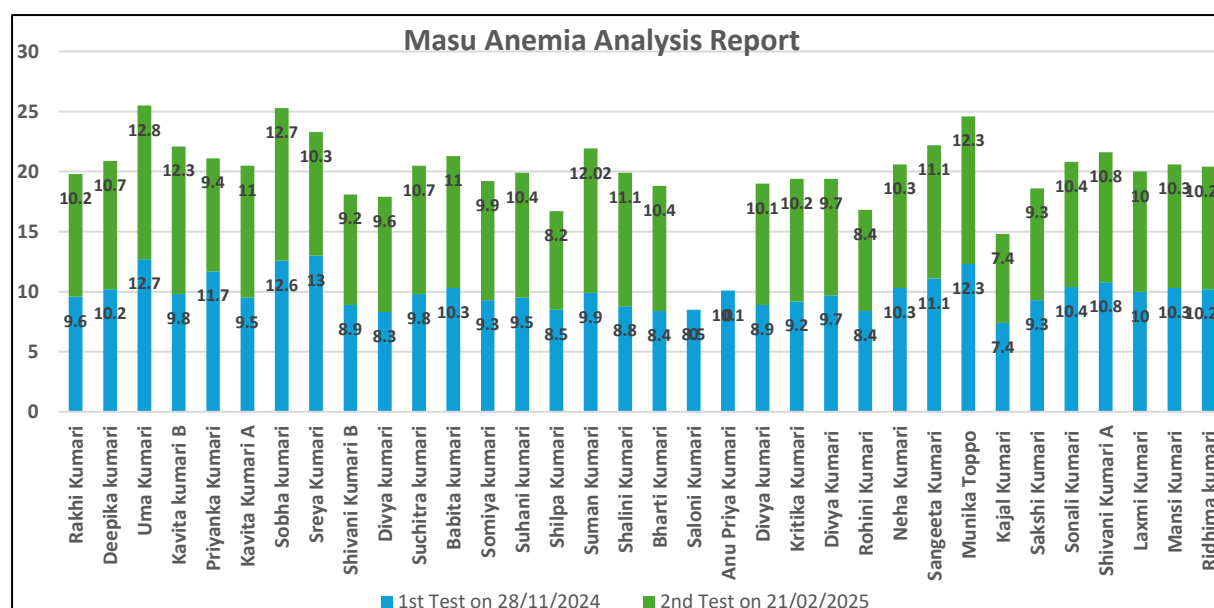


Fig No. (ii)

The data has been taken from Masu middle School. As shown in the figure above, there is a significant improvement in their hemoglobin levels between the two tests.

- Rakhi Kumari increased from 9.6 to 10.2.
- Kavita Kumari B improved from 9.8 to 12.3.
- Sumiya Kumari increased from 9.3 to 9.9.
- Shalini Kumari improved from 8.8 to 11.1.
- Suchitra Kumari increased from 9.8 to 10.7.

Whereas some girls may need additional dietary support, medical care, or more consistent monitoring to prevent a decline in their health status. The improvement in hemoglobin levels for several girls suggests that the anemia intervention and providing such as counselling, iron supplementation, and protein powder is making a positive impact among the adolescents.





Summary of ANC and Institutional Delivery Project March 2025							
Sl. No.	Village	Total Beneficiary (Including New)	Institutional delivery (Achieved)	Home Delivery in this month	Miscarriage in this month	Current Pregnant beneficiary	ANC Clients Treated
1	Masu	7	1	0	0	6	5
2	Ulatu	10	5	0	0	5	3
3	Hesal	33	6	0	1	26	21
4	Baheya	6	3	0	0	3	3
	Total	56	15	0	1	40	32

Fig No (iii)

In March, 32 ANC clients received treatment. Hesal village recorded the highest number of ANC treatments (21), followed by Masu (5), Ulatu (3), and Baheya (3).

- Free-of-cost cataract surgery:  
A total of 73 patients from the villages of Hesal, Tatisilwe, Berwari, Silwe, Namkum, Tati, Lupungjara, Mahilong, Namkum, and Banpur received free cataract eye surgeries through Shalini Hospital, in collaboration with the Usha Martin Foundation. In addition, the patients were provided with free spectacles.



- Civil Work- Civil work is ongoing in Shalini Hospital, Angara of floor and boundary.



### 3. Sports, Infrastructure Development & Others:

- Pond Restoration Work:

This initiative is aimed at enhancing the pond's structure and functionality, possibly for purposes like water conservation, flood control, or improving the pond's overall appearance. We have restoring ponds in two villages, namely Masu and Ulatu as shown in the picture below.



- Chabutra Nirman in Ulatu Village:

To enhance the quality and strength of the platform, the current structure has been constructed with shed and is completed.



- Toilet Repair Work (Model Village Initiative): The Modern Village Project successfully repaired 20 toilets in the villages of Masu and Ulatu. This initiative has significantly improved sanitation standards, creating a cleaner and healthier environment.





- Community Hall Renovation Work:

The construction of the community building was underway in Ulatu. The renovated community hall provides accessible space for various activities, events, training, and gatherings, contributing to the social and cultural development of the area.



#### 4. Education & Learning

- Ekal Vidyalaya- For the establishment of an Ekal Vidyalaya in the region, we have been conducting village meetings in dense forests and tribal areas. This initiative is focused on providing education to children in remote areas, ensuring access to basic learning.



Angara



Jarga

- Ekal Vidyalaya Meeting: A review meeting was held in the village with Ekal Vidyalaya supervisors and members of the Friends of Tribal Society. The meeting focused on assessing the progress of educational initiatives and tribal welfare projects. Supervisors provided updates on the ongoing Ekal Vidyalaya schools, highlighting student enrollment, teacher training, and overall impact on the community. Also, library items such as books, solar light lamp etc were distributed among the supervisor from each village.



- **BALA Painting-** The BALA Painting Initiative has begun with the STEM Learning program taking the lead in painting the auditorium hall of the school. As per the earlier discussion, the artwork's theme is concerned with environmental awareness. The vibrant murals aim to engage students by visually representing various aspects of nature and sustainability, aligning with the educational goals of promoting environmental consciousness. This initiative will enhance the aesthetic value of the space and serve as an ongoing reminder to students about the importance of protecting our planet.



## 5. Skill & Livelihood Enhancement

- **Tailoring & Fashion Design Training Certificate Distribution:** The Tailoring & Fashion Design training of thirty women from the village has been completed successfully. The certificate distribution was held at SPCD conference hall on 6<sup>th</sup> March.



- **Beautician (20) & Two-Wheeler Service (10) Training:** The training ended in the last week of March. The two-wheeler training candidates were sent for OJT at TVS for practical exposures. Soon we will be distributing the certificates to each candidate.





- **Sohrai Art Training:** The twelve tribal women at Haratu have completed one month of training. These have started generating income in a group by preparing art on paper and fabric and selling them to the local clients as well as UMF.



- **Mushroom Cultivation:**  
The mushroom cultivation initiative is flourishing, with seven strong community members involved in growing mushrooms, which provide a valuable source of nutrition and income. We have completed oyster mushroom spawn cultivation, which resulted in the community's success. The button mushroom production update is as follows:

Button Mushroom 2024-25					
Village	Total Bag	1st growth(kg)	Profit (Rs)	2nd growth(kg)	Profit (Rs)
Angara	33	18	3400	15	3000
Hesal	8	16.5	3250	4	800
Haratu	10	10	2000	8	1600
Masu	15	12	2400	8	800



## 6. Empowering Differently Aabled:

Identification & Support for Differently Aabled: The identified 15 new community members for quarter IV who are differently aabled, the devices and appliances have been delivered to the office.



- Ongoing Training- In collaboration with Deepshikha, an institute for child development and mental health, we are conducting tailoring training sessions under the Sambal Project for disabled children. Currently, ten candidates attend the session regularly. The training also supports the children's cognitive development, motor skills, and emotional well-being, offering a safe, inclusive, and supportive environment where they can grow and thrive.



- Aids and appliances distribution – One wheelchair and tricycle were distributed immediately to the individuals who had been identified as being in particularly vulnerable situations, those whose mobility challenges significantly hindered their daily lives, making basic tasks and participation in community activities difficult.





### Budget Utilised till March '25

CSR Total Allocated Budget (Ranchi & Hoshiyarpur) – Rs. 2,79,58,000

Actual Spent – Rs. 2,16,77,658

Balance Amount - Rs. 62,80,342

### Pillar wise Budget Spent

Sl. No.	Pillar Wise	Actual Spent (Rs)
1.	Health & Nutrition	72,29,835
2.	Education & Learning	28,99,043
3.	Skill & Livelihood Enhancement	27,39,996
4.	Natural Resource Development	22,14,406
5.	Sport, Infrastructure, and others	22,80,028
6.	Empowering differently abled	25,67,065
7.	CSR for Hoshiyarpur	9,87,915
	Cost for XISS Need Assessment & Report	7,59,370
	<b>Total</b>	<b>2,16,77,658</b>

### Conclusion:

The CSR activities in March 2025 were focused on sustainable agricultural practices, skill development, and education enhancement. The ongoing vocational training initiatives, community engagement activities, and empowerment programs are expected to have long-term positive impacts on local communities, particularly in terms of livelihood, self-sustainability, and education.

अपने आँखों का इलाज करा सके।  
है। इस तर्क से उषा मर्दान



**REPORT ON SOCIAL AUDIT FOR THE PERIOD OF 2022-23**  
**OF**  
**USHA MARTIN LTD CSR INITIATIVES**

**Report Submitted to**



**Report Prepared by**



.....  
Citizens Foundation, 7Betar Kendra, Niwaranpur, Ranchi, Jharkhand 834002

Website: [www.citizensfoundation.org](http://www.citizensfoundation.org), Email: [mail@citizensfoundation.org](mailto:mail@citizensfoundation.org)

Ph. No: 0651-2481777/2482777

## ACKNOWLEDGEMENT

We are grateful to USHA MARTIN LTD management for giving us the opportunity to work on this report. First of all, we are thankful to Dr. Mayank Murari, Senior DGM CSR and PR and other personnel of UML for providing us the opportunity of conducting the social audit for the period of 2020-21. We express our sincere gratitude to the field and supporting staffs of UML who helped us to understand the implementation process and provided relevant data related to the different initiatives. We would like to express our deep gratitude to Gram Panchayat Mukhiya, and all those who have directly or indirectly helped us in this audit process. Without their support and cooperation at the field this task could not have been achieved successfully.

We would like to thank Mr. Ganesh Reddy, CEO, Citizens Foundation for his immense support. We are also thankful to all support staffs of Citizens Foundation for their kind support in crucial time. We would also extend warm thanks to Mr. Hemant Tirkey, Director-Partnership and Mr. Shyamal Herenz-Director NRML, CF who contributed magnanimously to this social audit with their comments and insights. Nevertheless, we would like to express our sincere thanks towards researchers who devoted their time and knowledge in this social audit.



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4	Chapter 3: Thematic Interventions <ul style="list-style-type: none"> <li>a. Natural Resource Management</li> <li>b. Health and Nutrition</li> <li>c. Education and Learning</li> <li>d. Skill and Livelihood</li> <li>e. Training and Capacity Building</li> <li>f. Other Activities</li> </ul>	10-12 13-17 17-19 20-23 23-26 26-27
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## CHAPTER 1: INTRODUCTION

Usha Martin Ltd hereinafter referred as “Usha Martin” commenced business in 1962, the Founder’s vision was to be a global company and a world leader in manufacturing wire ropes. Amongst many challenges that lay in the pathway of achieving that vision, was awareness that it would not succeed as a global company and world leader by just being an island of prosperity in a sea of poverty and discontent outside its factory gates in Jharkhand. For several years the Founders of Usha Martin searched for answers to achieve inclusive growth that eliminates discontent in a manner that could be sustained over generations and scalable across a wide population that our capabilities would allow. It is a long-standing observation that India is essentially two countries – one fuelling the drive for urbanization in India’s burgeoning cities and another striving for development in the vast rural landscape of Bharat.

Usha Martin acknowledges that business and society are interdependent and there is a need to balance the interests and needs of many diverse groups in society. To be a responsible corporate citizen is a commitment and this guiding force is also reflected in the mission statement of the company – “Reinforcing our commitment to safety, health, environment and the community around us.” It is indeed a great divide, one that has seemed to widen over the past four decades. Pursuing inclusive growth to bridge this gap was one of the reasons why the Founders of Usha Martin set up Usha Martin Foundation as a Registered Society under Societies Registration Act, 1860 in Jharkhand. The vision of foundation is Social development and Economic growth of the rural community. Usha Martin, the company implement activities in the development of people, started in Angara & Namkum (neighbouring) block covering 29 villages where the plants are situated. To make a change in the living of rural community, the company provides support in implementation of sustainable models of development with regular monitoring of change in the project area with participation of people. This commitment is further reinforced as a part of the company’s SHE policy - .by conducting all operations in a manner that is protective of the environment and health and safety of employees, customers and the community. The aim of the society is to promote the growth of rural economy, develop facilities for public education and the socio-economic development, welfare and upliftment of the rural communities. Accordingly, mobilizing the community and its available resources, we sought to find a way to ensure sustainable development in the region.



## Community Development Policy

Usha Martin Limited pledges itself to serve the community by:

- Designing, evolving and implementing sustainable community development programmes in its area of influence that lead to measurable socio-economic development of the community.
- Involving the beneficiaries in all stages of the process in the true spirit of participatory development.
- Having a focused and transparent beneficiary selection criterion, that provides for equal opportunity, favors the economically weaker sections and promotes enthusiasm.
- Partnering and networking with central and state governments, development bodies and NGOs to implement appropriate community development programmes.
- Involving the employees in volunteering for community development programmes.

The main focus of the policy is sustainable development of tribal and underprivileged community through participatory development programme. As one shifts more and more towards working in participation with the target beneficiaries, the structure of project implementation changes and ownership of development has started becoming evident. Usha Martin became more project-oriented engaging with various institutions to understand the needs of rural communities that would make a real measurable difference in their lives.

Usha Martin philosophy is market-based bottom-up approach of integrated interventions that are multi-disciplinary and integrated to effectively deliver and impact poverty reduction strategies. Usha Martin model is conscious about abdication of personal financial gain and tends to support social entrepreneurship among the communities by advocating effective use of resources and available capital which is in contrast with the conventional charity approach. Decades of government-led and entitlement-based approach to charity towards the local communities of Jharkhand yielded poor results. Human Development Index (HDI), per capita income, per capita consumption and other socio-economic indicators for the local community was abysmally low. Secondary data from different official reports and websites provided enough material to preliminarily analyse the broader trends of socio-economic conditions of local communities. The needs were many and basic in nature. While others take these for granted but the reality is that we cannot deliver on rural development unless we develop water infrastructure for drinking and agriculture; provide access to energy; stabilize the domestic environment by tending to the health needs of the mother and child and deliver education; empower women towards an earnings-based vocation; build capacity through training and create market linkages to enable an opportunity to increase income.

### **Mission**



To create an equal and sustainable society by empowering poor, tribal and marginalized Communities and farmers.

### **Vision**



Engaging society to become active and supportive partners, advocating and supporting community for sustainable development.



## CSR Mission and Strategy

- ✚ To achieve inclusive growth in our areas of operations and neighboring communities through integrated community and rural development that is sustainable, scalable and adaptable by transforming beneficiaries to become producers, entrepreneurs and customers.
- ✚ To be a responsible corporate citizen by driving inclusive growth with social equity, strengthening sustainable development and an active participant in nation building process

The Organization's CSR initiatives focus on following thrust areas



## Evaluation methodology

The research team followed a strategic methodology to conduct a qualitative evaluation study. The available programmes related data was analysed and multiple evaluation stages along with appropriate information collection tools viz. questionnaires, interview schedules, observation sheets were created for each programme component. Appropriate sampling of project sites/ locations as well as beneficiaries was done to receive justifiable information for the qualitative research.

The following processes were followed as per the evaluation methodology:

- ❖ Programme information review – data evaluation. The team reviewed all necessary information available with the Organisation with regard to each programme.
- ❖ Beneficiaries and project sites sampling
- ❖ Site visits, interviews, Group Meetings and FGDs
- ❖ Observation research

## **Outcomes**

The primary outcomes along with the relevant output data have been shared in this brief report.

## CHAPTER 2: PROJECT AREA

The Project Area includes 18 villages of three blocks Angara, Namkum and Kanke of Ranchi District. List of villages are given in the following table

Block	No. of Villages	Villages covered under CSR activities by UML
Angara	08	Baheya, Chatra, Masu Hahaey, Hesal, Lupung Bedwari, Angara
Namkum	07	Mahilong, Arrah, Baram Tati East, Tati West Silwai, Haratu
Kanke	03	Lalganj, Khatanga, Pairshol



## CHAPTER 3- THEMATIC INTERVENTION

### NATURAL RESOURCE MANAGEMENT

Energy is required for the evolution of life forms on earth. We obtain energy from different sources. The natural resources that we use today are the prime source of energy for the day-to-day activities of humans, without which we would still be lurking around in the Stone Age.

Management of natural resources refers to the plan of action related to renewable and non-renewable resources. Natural resources like land, soil, water, plants and animals are affected by global warming, overpopulation, industrial expansion and other related reasons; therefore the management of natural resources is important:

1. To maintain a balance in the ecosystem.
2. To avoid further destruction of the environment.
3. To avoid over-consumption of natural resources.

#### Issues of the Project Area

Issues in the area mostly relate to land deterioration, water-related issues and land-use changes due to Unsustainable Agricultural Production. Unsustainable practices have serious impacts on people and the environment. Pesticides, fertilizers and other toxic farm chemicals can poison fresh water, marine ecosystems, air and soil. Agricultural production consumes excessive water and degrades water quality. This adversely impacts freshwater systems. Many farming practices—such as burning fields and using gasoline-powered machinery—are significant contributors to the buildup of greenhouse gases in the atmosphere. With an effective NRM policy in place, it is possible to address these issues.

#### Program's Objectives

- To encourage farmers for advance Agriculture practices
- Ensuring Food availability in the Project Area
- Ensuring sufficient water availability for agriculture
- To ensure Good Agriculture

practices **Activities undertaken by the**

#### **Organization** *Facility of Drinking Water*

Agriculture production is highly dependent on water and increasingly subject to water risks. It is also the largest using sector and a major polluter of water. Improving agriculture's water management is therefore essential to a sustainable and productive agro-food sector; therefore Usha Martin Foundation undertaken the activities like Hand Pump Repairing and Construction of Jalminar for Drinking Water.

### ***Irrigation facility to Farmers***

For the efficient distribution of available water and to avoid the problems of Land Acquisition, use of pressurized pipe system wherever feasible is encouraged .Usha Martin Foundation focuses on water use efficiency at farm level through precision/irrigation and hence installed Drip Irrigation in the Project Area.

### ***Distribution of Seeds***

To boost agricultural productivity, Usha Martin Foundation has distributed seeds (Mung, Arhar, Urad and Chana Dal), Vegetable Seed, Wheat Seed and Fruit Plants etc., to the farmers.

### ***Distribution of Farm inputs***

Other Farm inputs like Spawn, Net and Feed has also been provided to the Farmers.

### ***Soil Testing***

A soil test is important for several reasons: to optimize crop production, to protect the environment from contamination by runoff and leaching of excess fertilizers, to aid in the diagnosis of plant culture problems, to improve the nutritional balance of the growing media and to save money and conserve energy by applying only the amount of fertilizer needed. The organization has done Soil Testing Activity in the project area to overcome agriculture related problems.

### ***SRI Practice with Farmers***

The System of Rice Intensification (SRI) is gaining popularity among small and medium farmers in not just because it has high potential in increasing rice yield, but also because it uses much less seed and water .Farmers have reaped success with SRI method of cultivation provided by Usha Martin Foundation.

Sl.	Activities	Total Nos
1	Hand pump repairing	515
2	Drip irrigation installation	34
3	Jalminar for drinking water	310
4	Distributed of Mungdal, Arhar, Urad & Chana seeds	340
5	Soil test	88
6	Spawn/Net/Feed Distribution	24
7	Forestry/Fruits plant distribution	40
8	SRI with progressive farmer	53
9	Wheat seed distribution	15
10	Seed Distribution (Vegetable)	599

## **Impact**

- ❖ Ensured sustainable yield protected the environment with development of livelihood
- ❖ Improved the safety and quality of food and other agricultural products
- ❖ Reduced the risk such as hazards of pesticide, other chemicals, microbiological, physical contamination etc.
- ❖ Promoted sustainable agriculture thereby meeting social development objectives.

## **Outcome**

Outcome can be defined in four categories:

### **Economic Viability**

- Improved the cost of production
- Provided an additional rate of return
- Improved the economic viability of agriculture
- Increased farmer's welfare

### **Environment Sustainability**

- Farm produced long-term crops
- Agricultural practices and livestock don't negatively impact the environment.

### **Social acceptability**

Usha Martin Foundation contributed to society by:

- Providing food and other essential materials for citizens
- Acting as the economic backbone of rural communities

### **Food Safety and Quality**

- Good hygiene practices in agriculture helped to reduce the emergence and spread of antimicrobial resistance along the food chain
- Reduced the risk of harmful contamination of produce
- Quality and shelf-life of product is maintained and spoilage reduced



## HEALTH & NUTRITION

Usha Martin Foundation's comprehensive and community-centric health programme takes primary healthcare services to the doorsteps of underserved communities. They provide high quality and affordable primary medical care to low-income and underprivileged groups in Jharkhand. Their aim is to make healthcare accessible to the poorest and the most deprived sections. Following a two pronged approach, the programme provides curative as well as preventive services, addressing the gaps in availability, accessibility and affordability of healthcare. The Organization is working in various areas such as child and reproductive health, nutrition, early identification of diseases, and treatment of endemic and communicable diseases.

During the recent past, the Organization adopted a conscious change in approach, moving to the Phygital mode of implementation of health programmes, including various camps, Life Style Promotion, Health Session Program, Nutrition Promotion etc. which strengthened its reach and expanded its ability to reach out to the community.

The Organization is also concern for enhancing the state of the physical, social, mental and emotional well-being of people. This is done through interventions like courses, classes, workshops and one-on-one interactions. The programmes are designed based on integrating various modalities of well-being like yoga, nutrition, counseling, etc.

### Issues of the Project Area

One among the numerous challenges is the lack of access to quality services for the poor and marginalized communities.

There is widespread hunger, high levels of morbidity, higher rates of chronic health problems and a vast unmet need for curative health care. The following are some of the major issues we see among our patient population and are working to address:

- Less access to health care
- Hunger and under nutrition
- Malaria
- Tuberculosis
- Maternal Health
- Malnutrition
- Low rates of vaccination

## **Program's Objectives**

The Organization aims to ensure a successful, high-quality and sustainable healthcare system that effectively adapts to the needs of the population and is accessible to all residents of its Project Area. Following are the major objectives of our Healthcare Program:

- Reducing the burden of chronic diseases in children, adolescents and adults
- Including vulnerable individuals in preventive healthcare, and
- Introducing the community approach model for health promotion and reducing healthinequalities in local communities.

## **Activities undertaken by the Organization**

### ***Organizing Health Camps***

The Organization is envisaging better health and related facilities for the tribal society. To encourage people to be proactive about their health and make preventive tests a habit, the free medical camp embraced Eye Check-Up, Dental Check-Up, Multispecialty Health Check-Up, in collaboration with renowned doctors of reputed hospitals.

These timely interventions provide early diagnosis and treatment reducing the incidence of morbidity and mortality. Such health camps address immediate health care needs of the marginalized communities.

### ***Implementing healthy lifestyle promotion***

Lifestyle-related illness and disease, such as cardiovascular diseases, cancers and diabetes, are a leading cause of death worldwide. Healthy lifestyle promotion is the promotion of an active lifestyle, healthy eating habits, tobacco cessation and moderate drinking of alcohol including screening for risky lifestyle, brief advice about healthy living and extended counseling. The organization is therefore encouraged to integrate healthy lifestyle promotion in routine care.

### ***Supportive supervision of VHND***

This VHND program was conceived to get an insight in to the quality of service delivery in the districts, to identify the gaps and highlight best practices. VHND was introduced with an aim that it could bring about the much needed behavioral changes in the community, and can also induce health-seeking behavior in the community leading to better health outcomes. Main objectives of the program are:

- To provide essential and comprehensive health & nutrition services to pregnant

women, lactating mothers, children (0-5 yrs) and adolescent girls

- To strengthen linkages between Health & ICDS in promoting comprehensive maternal & child survival programmes
- To ensure early registration, identification and referral of high risk children and pregnant women
- To provide an effective platform for interaction among beneficiaries, service providers, and community members including Mothers Group, PRI, and SHG To sensitize beneficiaries, their families and community members on health, nutrition care and services at village level through discussion of various health topics as envisaged in the Health Calendar
- To render quality health and nutrition services to beneficiaries at door step through home visits, referrals services and follow ups.

### ***Immunization Program***

Usha Martin Foundation believes that Immunization is the most cost effective Public Health intervention, since it provides direct and effective protection against preventable morbidity and mortality. The Organization aims to conduct immunization for underprivileged children.

Our Immunization Program provides free of cost immunization to the underprivileged children and protects them from several life threatening diseases. In each camp, children aren't just provided a shot of vaccine, but are also checked for vitals and any delays in their developmental milestones. Additionally, children and parents are educated about the importance of vaccines for prevention of diseases.

### ***Health Session at Village and School level***

The health promotion activities have been implemented in targeted villages as well as government and government aided schools to fulfill following objectives:

- To provide age appropriate information about health and nutrition to the children in schools
- To promote healthy behaviors among the children that they will inculcate for life
- To detect and treat diseases early in children and adolescents including identification of malnourished and anemic children with appropriate referrals to PHCs and hospitals
- To promote use of safe drinking water in schools



### ***Awareness Program on HIV/AIDS and Tuberculosis and Supplementary food distribution to TB patients***

The Organization has implemented awareness campaigns on HIV/AIDS and Tuberculosis. The campaign endeavors to generate awareness regarding prevention of HIV/AIDS and TB, promotion of related services and reduce stigma and discrimination related to HIV/AIDS and TB.

The organization has also conducted a nutrition programme for TB patients and provided nutritional supplements to the patients suffered from TB.

### ***Village Health Committee Meeting***

In order to take collective actions on issues related to health and its social determinants at the village level, a Village Health Committee Meeting was conducted. The committee is envisaged to take leadership in providing a platform for improving health awareness and access of community for health services, address specific local needs and serve as a mechanism for community based planning and monitoring.

### ***Nutrition Promotion through Kitchen Garden***

We have facilitated the kitchen garden programme in our Project Area. This is done to ensure nutritional security for the member families apart from promoting health initiatives such as sanitation, personal hygiene, and safe drinking water. The concept is promoted to ensure nutritious food to the member family.

### ***Sanitary Pad distribution***

In order to promote safe menstrual hygiene practices by girls, Sanitary Pad distribution to the adolescents has been done.

### ***Yoga Program***

Yoga Program has been conducted to promote yoga and meditation through Health & Wellness Ambassadors

### ***4 COVID -19 Vaccination camp***

We have arranged COVID Vaccination Camp at our Project Area, in Which 99 People were vaccinated.

Sl.	Activities	Total Nos.
01	General Health, Eye/Dental camp & Life style promotion	2944 Patients
02	Supportive supervision of VHND/ immunization program	54 VHND
03	Health session (village & school)	39 Students
04	Covid -19 Vaccination camp	99 COVID Tests
05	AIDS/ TB/Other health awareness	66 Patients
06	Village health committee meeting	265 People
07	Kitchen Garden (Nutrition promotion)	154 People
08	Sanitary pad	1790 Women
09	Supplementary food distribution to TB patients/ TB health awareness	60 Patients
10	Yoga program	666 Students

## Impact

Health interventions by Usha Martin Foundation reached 6137 individuals in the last Financial Year, with the aim to impact the lives of communities in the areas of maternal and reproductive health, child health and nutrition, Endemic and communicable diseases. Significant improvements have been made in the quality of healthcare delivery services and health and nutrition outcomes of people such as institutional delivery, newborn care, infant and child feeding practices and child immunization have contributed to reducing infant and child deaths. Through HIV/AIDS and Tuberculosis intervention, there has been a steady decline in the number of cases reported.

People got aware of Health and Sanitation issues and its cure through various Camps, Health Session, and Village Committee Meeting etc.

## EDUCATION & LEARNING

Usha Martin Foundation design and implement high-quality, scalable solutions to achieve improved student engagement and a focus on academic outcomes. The Organization plays a significant role in ensuring that every child, especially those from vulnerable communities, receives the opportunity to build a better future through education. We work at the grass-root level to strengthen the education system, spread awareness about the importance of education and enroll as many children as possible so that they can thrive in life.



Through workshops and various activities, awareness is generated amongst parents and local communities about the importance of education. Usha Martin Foundation also conducts regular counseling sessions to encourage parents to send their children especially girls to school and help them participate in various activities.

We conduct multiple activities in schools that help students learn their rights, build skills and develop confidence. We also focus on Quality Education and hence strengthen school infrastructure, provide books, computers and other learning materials to children and schools in need.

### **Issues of the Project Area**

Following are the issues of Educational System in our Project Area:

- **Lack of quality teachers and poor attendance of Teachers and Students:** One of the major problems of education in our Project Area is the lack of quality teachers. Another issue is the poor attendance of teachers and students. This problem is a vicious circle.
- **Lack of Transport:** Lack of transport is also the major issue. Students are unable to commute the long distances from their homes to the school premises.
- **Poor Infrastructure:** The construction of schools is also below satisfactory. The condition of many schools is in a pathetic state with broken walls, poor lighting and poor sanitation.
- **Lack of Finances:** Another challenge we face is the Lack of Finances. As the finances are low, the rural population finds it burdensome to spend on the education of their children. As a result, a large portion of the youth in the rural sector stays away from school.

### **Program's Objectives**

Following are the objectives of our Educational Programs:

- To increase the number of school going children
- To develop other learning skills in local schools & communities through quality Education
- Providing inclusive education to children with special needs
- To bring sustainable change in the lives of the children with a life-cycle approach of development.
- To maintain infrastructure facilities of schools



## **Activities undertaken by the Organization**

### ***Repairing of “Kanya Vidyalaya”***

We encourage learning by improving the Infrastructure of Government Schools; therefore we have undertaken repairing of “Kanya Vidyalaya” in our Project Area.

### ***Distribution of teaching and learning materials***

In order to promote safe, inclusive, and effective learning environment under SDG 4, the Organization has distributed Computers and Books among the students of our Project Area.

### ***Village Education Committee Meeting***

The Village Education Committee Meeting was conducted to address the various issues particularly the issue of access to disadvantaged groups, and out of school children, Improving school effectiveness, Strengthening the non-formal education system and other alternatives to schooling as well as planning and organizing school improvement programmes.

<b>Sl.</b>	<b>Activities</b>	<b>Total Nos.</b>
01	Running Sanskar Kendra	1126
02	Repairing of Kanya Vidyalaya (UM PANG)	204 students
03	Infrastructure Development	301 students
04	Distribution of Computer and Books for Quality Education	305
05	Village Education Committee Meeting	335 villagers

## **Impact**

Through our Educational Programs, we have improved access to education and promoted educational quality. We also worked to provide support and resources to help improve educational opportunities for children and adults. Our endeavors resulted in decreasing school dropout rate and increasing school going children in our Project Area. We have also supported in repairing and Infrastructure Development of many schools of our identified location which encouraged parents and students and therefore more number of students have been enrolled at schools.

## **SKILL AND LIVELIHOOD ENHANCEMENT**

Our Organization believes in inclusive growth through building the capacity of people from underprivileged section of the society. It supports Livelihood Generation Programs for creating opportunities, enhancing skills and facilitating enabling environment that empower associated communities to explore more possibilities for better income generation. We are implementing programs in the field of improved agriculture, livestock management, skill development, financial literacy and entrepreneurship development. These programs are designed with participation of the local communities and using their knowledge to make the initiative sustainable.

Usha Martin Foundation has made significance contributions to upgrade agricultural techniques and encourage vegetable farming on a large scale. Fruit bearing saplings have been distributed to the poor rural families for plantation. Vegetable seeds and seedlings have also been distributed. To encourage the tribal villagers to adopt modern agricultural techniques, meeting with SHG Members and Farmers are organized at village level from time to time.

We provide skill enhancement trainings which can generate employability. Some of the trainings are Training on Agriculture, Vegetable Farming, Fruit Plant , etc. The organization is also assisting the trainee in getting employment.

### **Issues of the Project Area**

In achieving the major objective of enhancement of rural livelihoods, the main areas that need to be taken into consideration are, poverty alleviation, innovative approaches in creating better livelihoods opportunities, basic amenities and infrastructure facilities and wage and self-employment. In rural communities, it is vital to ensure that individuals are able to generate sufficient income through which they would be able to augment their living conditions. In rural areas, individuals normally have large families; there are more than two children in a nuclear family. Therefore, in order to sustain their living conditions, the individuals are required to adopt more than one task or activity. In most cases, individuals belonging to rural communities migrate to urban areas to acquire job to enhance their living conditions. It has been found that they not only obtain employment opportunities in urban communities, but also are seeking enrolment in higher educational institutions to enhance their educational qualifications. Hence, it can be stated that rural individuals are generating information regarding programs, schemes and measures that would lead to up-gradation of their livelihoods opportunities.

### **Program's Objectives**

Following are the major objectives of our Skill and Livelihood Enhancement Program:

- To increase employability, reduce unemployment, raise wages, and boost living standards
- To enhance the abilities and thus opportunities of the Rural Poor by equipping them with necessary and relevant skills
- To help people in learning the appropriate skill and then finding a source of livelihood based on that
- To increase crop productivity
- To create awareness amongst target farmers regarding best practices in agriculture and livestock
- To generate awareness amongst farmers regarding best farm technologies
- To make community confident, self-reliant and to develop in them the ability to be a part of decision making

### **Activities undertaken by the organization**

#### ***Meeting with SHG***

A meeting has been organized with the SHG members. In this meeting, necessary guidance and support inclusive of monitoring their books of accounts and such was extended by the members of the NGO. Under the shade of it, many of the groups had taken up certain livelihood activities within their periphery of skill and resources.

#### ***Meeting with Farmers***

In order to promote income generation activities by developing agriculture and crop production, a meeting was organized with the farmer's group of our Project Area.

#### ***Exposure Visit to support villagers***

One Day Exposure visit was organized in our project area to promote sharing knowledge and experiences while allowing Farmers to view evidence-based successful climate resilience practices and farm-based innovations. Total 25 Farmers have been supported through this Exposure Visit.

#### ***Distribution of Dragon Fruit Plant***

With the growing interest in farmers and the quick returns that they are getting from cultivation of Dragon Fruit in agricultural and marginal lands, distribution of Dragon Fruit Plant has been done to 21 Farmers of our Project Area.



### ***Distribution of Strawberry Plant***

In view of the demand for Strawberry cultivation, Usha Martin Foundation is working to encourage its cultivation. Keeping this in view of the demand of the farmers, Strawberry Plant has been distributed to 13 Farmers of our Project Area.

### ***Mushroom Seed distribution***

With an aim to skill the rural community in mushroom farming and providing a platform to strengthen their entrepreneurial qualities, distribution of Mushroom seeds have been done by the organization.

### ***Cash Crop Promotion***

We have initiated Promotion of Cash Crop in our Project Area. It aims to increase production of sugarcane, tobacco and oilseeds (mustard and rapeseed). It will improve support services for these crops and will build on existing efforts to upgrade agricultural extension

### ***Establishment of Polyhouse Nursery***

Usha Martin Foundation Knows that capacity to produce food all year round is only one of the many advantages of using Poly houses rather than traditional agricultural methods; therefore Polyhouse Nursery has been established in the Project Area.

### ***Training on Kitchen Garden***

The Organization focuses on promoting Kitchen Garden. The initiative aims to reduce malnutrition by enabling communities to grow vegetables and fruits rich in micronutrients. We target vulnerable and marginalized communities and families with a high prevalence of malnutrition and anaemia, which includes both, Severe Acute Malnourished (SAM) and Moderately Acute Malnutrition (MAM) children. To fulfill this endeavor, we have conducted training on Kitchen Garden.

### ***Training on Jute Craft***

The Organization has conducted a training program in jute manufacturing. The jute product designing aims at replacing plastic bags, providing livelihood for participants after completion of Training.

Sl.	Activities	Total Nos.
01	SHG meeting	493 villagers
02	Dragon fruit plants distribution	21 farmers
03	Cash crop promotion	34 people
04	Exposure visit and support to villagers	25 farmers
05	Duck farming	11 people
06	Kitchen Garden training	397 people
07	Village meeting (Farmers)	28 farmers
08	Strawberry plants distribution	13 farmers
09	Establishment of polyhouse nursery	60
10	Jute training	11 people
11	Mushroom seed distribution & training	212 people

### **Impact**

Our efforts have resulted in better socio economic conditions of various communities. Our programs aim to create an opportunity for them to escape the cycle of poverty by creating opportunities at various levels. We focus on creating local opportunities where possible, up skilling them in their existing occupations be it agriculture or allied businesses such as dairy, poultry etc. Each of these initiatives is tailor-made to address the prevailing market conditions and geography.

### **TRAINING & CAPACITY BUILDING**

We work to alleviate poverty and empower the underprivileged through various activities, such as training, mentoring, networking, advocacy, and resource mobilization. We work towards training young people from vulnerable backgrounds. We are putting in our efforts to make youth skilled and employed through our various training programs and to give them marketable skills so that they can get permanent employment easily for a Sustainable Livelihood. We also work towards empower young women and girls of Jharkhand by providing them with the tools, opportunities, and support they need to discover their voice, exercise their choice, and transform their lives.

The Organization is implementing various training programmes. We are imparting effective and quality capacity building, support in providing trainings by experts and experienced trainers and also provide handholding support to our Beneficiaries.

### ***Issues of the Project Area***

Rural and remote areas often experience a range of difficulties that impede their social and economic growth, such as limited access to services, infrastructure, and opportunities; geographic isolation and low population density; high levels of poverty, unemployment, and

inequality; environmental degradation and climate change impacts; and cultural and linguistic diversity and marginalization. These issues can have a detrimental effect on the health, well-being, and livelihoods of rural and remote communities, and can limit their capacity to participate in community outreach and development initiatives. Capacity Building Program can help to address these challenges by improving the skills and confidence of community members and leaders, reinforcing the relationships and collaboration among community groups and stakeholders, increasing the availability and accessibility of resources and information, improving the representation and voice of rural and remote communities in decision-making processes, and promoting the recognition and appreciation of local culture and values.

### **Program's Objectives**

We aim to empower communities to become more self-reliant, resilient, and sustainable, and to foster a sense of ownership and participation among community members. The major objectives of our Training and Capacity Building Program are:

- To create awareness
- Transfer of skills and know-how
- To promote decentralization
- To encourage and motivate the knowledge sharing among Participants
- To grow Youth Productivity
- Expansion of skill sets
- Rise in the young people's performance

### **Organization *Training on Strawberry Cultivation***

There is insatiable demand in the market for the fruit and after looking this demand, we have Offered trainings to people willing to succeed in strawberries farming.

### ***Tailoring Training***

We have provided skills training in tailoring to Women Group. During this training, women have learned and developed skills in tailoring.

### ***Training on Plantation***

A training Programme on Plantation was organized by our Organization. The main objective of the training was to demonstrate and impart the skill of participants in plantation.



### ***Training on Mushroom Cultivation***

We have imparted training to the rural farmers and unemployed youths who wish to grow Mushroom at low level with a limited investment.

### ***Training on Polyhouse Nursery***

Poly house farming is growing in India as it provides better income in a short period of time with less labor. Usha Martin Foundation conducted training on Poly House. The basic objectives of this training are:

- To provide technical skills to establish small commercial poly house unit
- To provide training in the planting of seedlings, preparation of bed, soil sterilization, pest and disease management in poly house.
- To impart basic technique in production of flowers in polyhouse like Gerbera, Carnation, Rose, color capsicum & cucumber, etc.

### ***Paper Cup and Plate Training***

Training on Paper Cup and Plate has been provided to the beneficiaries of our Project Area. There are numerous advantages of paper products like; they are manufactured in a very simple process using Food Grade Raw Materials with least waste and are easiest to recycle. They are ideal for individual servings at all kinds of parties, functions, picnic occasions, marriages, chat, tea & food joints, etc. Non-toxic in nature, the shapes and surface designs on these paper cups are attractive and present an inviting look.

### ***Youth Empowerment Training on Motorcycle Repairing***

Youth Empowerment and capacity building programs aim to teach life skills including personal, social, mental and spiritual development; therefore we have facilitated a training program on Motorcycle Repairing for the rural youths of our Project Area.

### ***Training on Fisheries***

Fisheries are a fast-growing 'Sunrise Sector' in India, which provides nutrition and food security to a large population and there is huge market demand for fish; therefore we have organized training programme on Fish Breeding Techniques to our identified beneficiaries.

Sl.	Training & Capacity Building	Total Nos.
01	Village Meeting	46 Meetings
02	Strawberry Cultivation Training	19 farmers

03	Wheat Cultivation	11 farmers
04	Jalminar Application	82
05	Samshan Ghat Application	2
06	List of Kishan Sangathan	332 farmers
07	Tailoring Training	31 villagers
08	List of SRI	270 Villagers
09	Plantation Training	20 peoples
10	Distributed items to Ekal Vidyalay	30 farmers
11	Blanket Distribution	121 villagers
12	Lemon Cultivation	18 villagers
13	Mushroom Cultivation Training	83 villagers
14	Polyhouse Nursery Training	62
15	Paper Cup & Plate Training	85
16	Youth Empowerment Training (Motorcycle Repair)	32 peoples
17	Fisheries Training	34 peoples

### ***Impact***

After initiated Capacity Building Program, the income of Rural Community has enhanced and they are now independent. They need not depend on anyone else. With these skills training youth became self-reliant and lived happily. The economic development of these community members has increased and they participated in decision making process. They taught these learnt skills to other youth who are in needy position.

### **OTHER ACTIVITIES**

#### ***SPORTS***

Rural individuals depict interest in various forms of sports activities as well as make them sources to augment livelihoods opportunities. The various forms of sports that individuals depict interest in are, running, wrestling, taekwondo, badminton, tennis, cricket, boxing, swimming and so forth. In the present world, rural individuals are getting involved in sports activities to a major extent to augment livelihoods opportunities. In order to encourage these Rural Youths; Usha Martin Foundation has initiated many Sports Activities in its Project Areas.

### **Issues of the Project Area**

Youth of Rural India is not very much aware of the sports and its benefits. Usha Martin Foundation is therefore conducting several activities to increase participation of the rural youth in sports. The Organization is actively involved in the promotion of sports among rural youth. Also, they are dedicated in the promotion of rural and indigenous/tribal games which provides for financial assistance.

## Program's Objectives

- Improvement of physical fitness.
- Improvement of mental capabilities.
- Improvement of Sports personality and physical fitness
- Performance efficiency and acquisition of sport skills
- To provide and co-ordinate a cohesive framework for sports specific development

## Activities undertaken by the Organization

### *Distribution of Sport Items*

The Organization extended its helping hands in distributing games and sports items among the rural youths of Project Area.

Sl.	Sports ,infrastructure and others	Total Nos.
01	Distribution of sports items	230

## Impact

After initiating Sports Activities in our Project Area, now Rural Youth are taking interest in Sports and more numbers of Young populations of our identified area got enrolled in Sports.

## Other Activities

Sl.	Activities	Total Nos.
01	Solar lights installation	282 villagers
02	Form filled	106 peoples
03	Hand pump repairing application	315 Peoples
04	Chabutra with shade	13 villagers



## CHAPTER 4- SUCCESS STORIES

### Bhadya became an example of Progressive Farmer

A person is an asset for the family when he is successful and in turn becomes a personality when he/she becomes a standard for the society. This is the story of Bhadya Mahto from Mahilong village. There were times when farming on self-obtained land was also not enough to manage the household and now People of Mahlong village provide their land themselves .

On this Bhadya Mahto says, “ *Humari zameen kahan hai sahib ! Gaanv wale zameen diye hain, uspar kheti kar lakho ka arjan kar rahe hain.*”

Remembering the time four years ago Bhadya Mahto states that those days was very different. Either profit or loss, he would be doing farming like an addiction or passion. He invested Rs. Four lakh rupees at a stretch in 2019 in farming but the entire amount was gone as he incurred a huge loss. At the same time, he got in touch with the supervisor of Usha Martin Academy Foundation. He has been taking nominal and substance benefits from Usha Martin Academy foundation earlier as well. He then took benefits from them on the direction of supervisor which paid him good results.

On asking what were the benefits he got from Agriculture, Bhadya mentions that once he was known as a failure in farming in the village, now the same people from the village let him the farming land to do farming. He mentions that from the support of Foundation 1000 strawberry saplings were provided which were planted in 10 dismil of land. He has earned rupees 50000/- since last November till now which will generate income till April month. Crops like peas and French beans were also cultivated with support of foundation yielding about 35000/- rupees. He also distributes his produce in family and neighborhood. UMA Foundation has helped to make farming his livelihood and income generating opportunities.

महदी या महल

24/03/23  
मुखिया  
ग्राम पंचायत-महिलौग (नामकुम)

## Promotion of Pisciculture done with scientific methods

### *The experience of successful Pisciculture*

My name is Manoj Kumar. I belong to Silve Mankidipa. While pandemic I thought to utilize the land I own by doing Pisciculture in there. I have failed in bamboo plantation and mango cultivation miserable before this. I started Pisciculture in one acre of land in 2020. I brought spawns and tried to farm it in pond but not even five percent of fishes survived even after six months. All small spawns were eaten by frogs, crab and snakes etc., I was not able to track the mistakes and analyze the proper procedure for the less mortality.



During that time, I was enlightened by Mr. Bhubaneswar Mahto, supervisor of UMA Foundation that fish farming training has to be initiated. In 2021, with courtesy of UMA foundation, we were trained in Fisheries department of Jharkhand Government for three days. Then we realized that half knowledge is dangerous. Sowing in spawns in pond has to be accompanied by care, maintenance etc., Fishes will increase and grow even in less water provided scientific approach is taken up.

After this, I was regularly in touch with UMA Foundation's supervisors. Now I sell 7 to 8

quintals of fishes twice or thrice a year. I don't have to go anywhere. Buyers come in the village and we get good bargain in selling them. Every transaction has 10 to 15000/-. Now I am learning the techniques of Bamboo Plantation so that I could become an example in the village.

मुखिया  
ग्राम पंचायत-सिलवे  
प्रखण्ड-नामकुम, राँची

Manoj Kumar

## Mini Mushroom Farming

My Name is Mulu Mahto. I belong to Masu Village and I am a farmer who does mixed farming. My family members have my wife Shila Devi. I have a son and a daughter. I have a small shop and a small garden farm in which I dedicate some for kitchen garden. Initially my grocery store was at its peak but after 2021 the sales got down. My household expenses were not met properly due to this and I was very much in trouble. To cope up with this I bought five cows so that I could come out of poverty.



One day the supervisor from



UMA Foundation told me that I could mushroom cultivation in a small space which is high yielding. He suggested that with dairy, I should continue mushroom farming simultaneously. I was excited that I could do this. I was given the training for mushroom cultivation by UMA foundation. I started the farming with seed money of Rupees 500 after which UMA Foundation gave me mushroom seeds. I made 50 bags of mushroom from it and earned a

profit of Rs. 10000 where 30 bags are yet to be taken up. I got immense benefit in Mushroom farming. I tell other people in masu village the techniques of mushroom farming in small place and earn income from it.



## Farming with Self Dependence made me Successful Entrepreneur



My name is Premnath Mahto. I belong Masu village of Hesal Gram Panchayat. Initially I used to work at Sarojini ITI where my monthly income was 7000 per month which was not enough for keeping up my household. Today, I am a self-dependant farmer. Farming made me a successful entrepreneur. Now I motivate the other progressive farmers in village for generating livelihood and rise in income opportunities.

Remembering his old days, he mentions that before 2020 he used to grow paddy and somehow manage his household. Due to lack water availability, life conditions were miserable. Farming was going well but the impact and benefit was not seen. My wife Mamta Devi met a supervisor from UMA foundation while the pandemic hit the country which led us to farm high yield shrividhi paddy cultivation which increased the produce. After that, I went in training

where I realised that farming could be a medium of self-dependence for me. We got drip irrigation to meet the lack of water facility which helped us do farming in less amount of water. Once the officials of UMA foundation told me to be the lord if this amount of land is owned by you. I felt that to my heart and started working on it.

Then since 2021, I started more coverage for farming. We planted water melon in two acres in total with support of UMA Foundation. I earned more than one lakh from this. I earned 3.5 lakhs by selling about 20 tons of water melon where half



of it was our profit. In 2023, we cultivated water melons in 3 acres for which seeds and training from UMA

Foundation. We also cultivated strawberries in 7 dismils of land with support of UMA Foundation. From with about 80000/- has been our earning. The produce is being sold in market till now. Last year, we planted chilies which were worth 90000/- in market rate with support of the company. Now I say that If you can do farming, it's better to be the entrepreneur than taking a job elsewhere and make our neighborhood and locality self-dependent too.

## Mushroom Cultivation

Jagni Devi and Vishnu Pahan is a couple residing in Silve Basti of Silve Panchayat of Namkom Block of Jharkhand. Jagni Devi is a housewife and her husband is an auto rickshaw driver. Auto rickshaw was not fetching good income for him to survive due to which Jagni Devi was unable to take care of the household and education of their children. Jagni Devi was once told about the Mushroom farming and training provided by UMA Foundation. This made her realise that she could earn additional income from mushroom cultivation sitting at home herself and taking care of everything is she gets the training and opportunities. Then she requesting for



mushroom seeds from UMA foundation CSR and gave them 600 rupees for that. Jagni Devi mentioned that her family faced a lot of problems in pandemic when auto rickshaws were not plying on the road due to restrictions and hence no income was generated. She earned profit of Rs. 9000 from Mushroom cultivation at home which made her feel very happy. She started one Snack Shop nearby her house with that amount as seed capital and with that she was also selling mushrooms simultaneously. This slowly brought them out of poverty.



## Chapter 5: Master Plan for next 5 years

The Following Activities shall be carried out in 10 villages under CSR

Master Plan of 05 Years for CSR 10 Villages	
(Tati, Haratu, Ara, Mahilong, Silwai, Chatra, Masu, Angara, Lupung, Lalganj)	
No	Activities Pillars
	<b>Capacity Building of Villagers</b>
1	Nursing training for rural women
2	Training of Tailoring and fashion Designing
3	Beautician Course for young girls
4	Computer training for youth
5	Plumbing
6	Repairing and maintenance of two wheeler
7	Training of repair of Home appliance
	<b>Enhancing Health &amp; Nutrition</b>
1	Antenatal coverage to Children
2	Institutional Delivery
3	Anaemia Prevention (Girl & Women)
4	Enhancing Public Health (Mobile Camp)
5	Cataract Operation
	<b>Promotion of Agriculture Activities</b>
1	<b>Promoting Water Conservation</b>
a)	Drip Irrigation
b)	Well/Dova/Jalminar Repair/ Construction
c)	Water harvesting Structure
2	<b>Conservation of Environment</b>
a)	Multi Cropping/SRI
b)	Horticulture/Social Forestry
c)	Soil Test
	<b>Cash Crops Promotion for livelihood</b>
a)	Farmers linkage to Strawberry/ Dragon fruits
b)	Promotion of cash crops in farmers
c)	Mushroom Cultivation for Livelihood
4	<b>Promotion Renewable Energy</b>
a)	Installation of Solar Street light
b)	Solar Water Pump
	<b>Promoting Education, Sports &amp; Others</b>
1	Infrastructure Development of School/ AWC's
2	Providing Books/ Computer
3	Development of Adivashi Children through Eakal Vidyalay
4	Promotion of Sports in village

## **Chapter 6: Recommendation:**

The Policy recognizes that corporate social responsibility is not merely compliance; it is a commitment to support initiatives that measurably improve the lives of underprivileged by one or more of the following focus areas as notified under Section 135 of the Companies Act 2013 and Companies (Corporate Social Responsibility Policy) Rules 2014.

### **Scopes: Education:**

- Awareness Programmes on girl education. Counseling of parents Special attention on education, training and rehabilitation of mentally & physically challenged children/persons.
- Spreading legal awareness amongst people and disadvantageous sections of the society about their rights & remedies available.

### **Water Supply including Drinking Water:**

- Installation/Repair of Hand Pumps/Tube Wells.
- Digging/Renovation of Wells.
- Formation of a Task Force of Volunteers to educate people regarding proper use of drinking water.
- Empowerment to the villagers for maintenance of the above facilities for availability of water

### **Health Care**

- Organizing, health awareness Camps: AIDS TB and Leprosy, Social evils like alcohol, smoking, drug abuse etc.
- Child and Mother care
- Organizing Blood donation camps.

- Fully equipped Mobile Medical Vans.

**Social Empowerment:**

- Training of Rural Youth for Self Employment on Welding, Fabrication, and other Electronic appliances.
- To provide assistance to villagers having small patch of land to develop mushroom farming, medicinal plants, farming & other cash crops to make them economically dependent on their available land resources.
- Training may be provided by agricultural experts for above farming.
- Organizing training programmes for women on tailoring Embroidery designs.

**Sports and Culture:**

- Promotion of Sports and Cultural Activities for participation in State and National level.
- Promotion/Development of sports activities in nearby villages by conducting Tournaments like Football, Kabaddi and Khokho, Cricket etc.
- Providing sports materials for Football, Volleyball, Hockey sticks etc. to the young and talented villagers.
- Sponsorship of Cultural event to restore Indian Cultural Traditions and Values. Possibility of providing facilities for physically handicapped persons may be explored. Medias for preparing of documentary films.





National Accreditation Board for  
Testing and Calibration Laboratories

**CERTIFICATE OF ACCREDITATION**

**ENVIRONMENTAL LABORATORY OF CPP, USHA MARTIN  
LTD., RANCHI**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

**"General Requirements for the Competence of Testing &  
Calibration Laboratories"**

for its facilities at

2\*10MW CPP, USHA MARTIN LTD, TATISILWAI, RANCHI, JHARKHAND, INDIA

in the field of

**TESTING**

Certificate Number: TC-5404

Issue Date: 05/05/2022

Valid Until:

04/05/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.  
(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Name of Legal Identity : USHA MARTIN LTD

Signed for and on behalf of NABL



N. Venkateswaran  
Chief Executive Officer

Ref No. UML/NKP/11-12/010

Date : 26<sup>th</sup> April, 2011.

To,  
The Deputy Commissioner,  
Ranchi.

**Sub: Environment Clearance for installation of 2x10MW Coal based Captive Thermal Power Plant at Vill : Tatisilwai, district Ranchi in Jharkhand.**

Dear Sir,

We are enclosing herewith photocopy of the Environment Clearance received by our company for installation of 2x10 MW coal based Thermal Power Plant at Tatisilwai from Government of India, Ministry of Environment & Forest vide their letter no. J-13012/122/2008 – I.A.II (T) dated 07/04/2011 for your kind perusal and information please.

Thanking you,

Yours faithfully,  
For USHA MARTIN LIMITED

*N. K. Patodia*  
(N. K. Patodia)  
Assistant Vice President.

Encl : As above.

CC ✓ The District Industries Centre  
Ratu Road, Ranchi.

Ranchi Municipal Corporation,  
Kutchery, Ranchi.

The Zila Parishad, Ranchi.

The Chottanagpur Chamber of Commerce & Industries,  
Ranchi.

The Gram Panchayat,  
Vill : Tati, Ranchi.

The Gram Panchayat,  
Vill : Haratu, Ranchi.

The Regional Officer,  
Jharkhand State Pollution Control Board,  
Tipudana, Ranchi

Along with photocopy  
of one set of the above  
mentioned letter



Certified as an approved  
Manufacturer by  
Lloyd's Register of Shipping



Certified as an approved  
Manufacturer by  
Det Norske Veritas



Certified by the  
American Petroleum Institute  
Licence number 9A - 0017



TYPE APPROVAL PROGRAMME  
Certified as an approved  
Manufacturer by  
American Bureau of Shipping



# Usha martin Limited, 2X10 MW CPP

## Display Board at CPP main Gate





**J. N. Agrawal & Co.**

**Chartered Accountants**



RMC Shop 2, Opp. Manik Corporate

Pahari Mandir Lane, Ratu Road,  
Ranchi 834001, Jharkhand

[Ca.abhishekjha@gmail.com](mailto:Ca.abhishekjha@gmail.com)

Date: 03<sup>rd</sup> May 2022

**TO WHOM IT MAY CONCERN**

On the basis of Books of Accounts, Fixed Assets Register and other related documents and Vouchers, which we thought necessary for certification purpose, provided by Usha Martin Ltd, (WR&SPD) Tatisilwai Ranchi, Jharkhand having CIN: L31400WB1986PLC091621, we hereby certify that the Project Cost of CPP (Captive Power Plant) as on 31-03-2022 is evaluated as per below:

Assets Description	Total Cost (Gross Value)
Land	Existing Land
Plant & Machinery	90,34,14,604.59
Building	26,05,35,277.33
Infrastructure	17,91,95,462.81
<b>Total</b>	<b>1,34,31,45,344.73</b>

**Note:**

- 1. Gross Value of Assets given above means Original Cost i.e without taking effect of Depreciation or retirement of any Assets.**
- 2. Plant & Machinery also includes Pollution control equipment's exact segregation of these equipment's from P & M is not possible because company is not recorded it properly in its books.**
- 3. Above Figures are taken from Books of Accounts as provided by Management as on 31-03-2022.**

**For J. N. Agrawal & Co**

Chartered Accountants

Firm registration No 000818C

*Abhishek Kumar Jha*

CA Abhishek Kumar Jha

Membership No. 439610

Place: Ranchi

Date: 03<sup>rd</sup> May 2022

UDIN No: - 22439610AIIXAN2603



**Compliance Status of Office Memorandum on dated 11<sup>th</sup> Nov'20 against File No: J-13012/8/2009-IA.II (T)**

**Usha Martin Ltd, 2x10MW CPP, Tatisilwai, Ranchi**

Respected Sir,

We have noted the content and hereby submitting the compliance status for your record.

Point No: 7

In order to simplify the procedure for change in coal source and encourage Thermal Power Plants to use domestic coal, the Ministry has decided the following procedure:

All the Thermal Power Plants (including Captive Power Plants) having Environmental Clearance can change the coal source (from imported to domestic, domestic to domestic, and domestic to imported) including Lignite, directly through e-auctions/short term linkage/long term linkage/other linkage options of Ministry of Coal or any organisation recognised for allotting coal linkages, without seeking the amendment in Environmental Clearance, subject to the following conditions and thereby making earlier conditions in the EC regarding coal source redundant:

- A) Details regarding change in source (location of the source, proposed quantity, distance from the power plant and mode of transportation), quality (Ash, Sulphur, Moisture content and Calorific value) shall be informed to the Ministry and its concerned Regional Office. The quantity of coal transported from each source along with the mode of transportation shall be submitted as part of EC Compliance Report.

**UML Compliance Status:** Complied. Proposed planning for FY24-25 is furnished for record.

Year	Proposed Coal Source	Proposed Qty	Mode of transportation	Proposed Ash %	Proposed Sulphur %	Proposed GCV (kcal/Kg)
2022-23	<ul style="list-style-type: none"><li>Through e-auction, CCL &amp; JSMDCL Coal Mines &amp; also Coal from TATA West Bokaro, Jamadoba &amp; HEC, Ranchi etc.)</li><li>We have executed FSA with CCL under NRS linkage for supply coal to CPP located at Tatisilwai, Ranchi.</li></ul>	0.183 MTPA	Road, Vehicles are fully covered with tarpaulin	Range : 34 to 40%	< 0.2%	Range : 4001 to 4501

- B) The applicable flue gas emissions standards for Particulate Matter, Sulphur Dioxide, Oxides of Nitrogen and Mercury shall be complied in line with Ministry's Notification vide S.O.

3305(E) dated 7.12.2015 and subsequent emissions. A progress of implementation and its compliance shall be submitted as part of Compliance Report.

**UML Compliance Status:** Complied. Report submitted.

- C) Ash content in the Coal and Coal transportation is governed by the Ministry's Notification vide S.O. 1561(E) dated 21.5.2020. As far as possible, Coal transportation shall be done by rail/conveyor or other eco-friendly modes. However, road transportation is allowed with tarpaulin covered trucks till the railway/conveyor belt infrastructure is made available. A progress (Physical and financial) of rail connectivity from nearest railway siding or conveyor connectivity to the power plant shall be submitted in the EC compliance report.

**UML Compliance Status:** Complied. Report submitted.

- D) Additional ash pond is not allowed due to increase in ash content in the raw coal as against the ash pond permitted in the Environmental Clearance. The 100% flyash utilisation is to be achieved within 4 years in line with Flyash Notifications dated 14.9.1999, 27.8.2003, 3.11.2009 & 25.1.2016 and amended time to time or extant regulations on Fly ash Utilisation.

**UML Compliance Status:** Complied. Fly Ash Utilization Report submitted.

- E) In case of exceptional circumstances, project proponents may approach the Ministry for seeking permission to use an emergency ash pond with cogent reasons, if any.

**UML Compliance Status:** CPP utilized 100% generated fly ash in past years and report submitted.

- F) The details regarding monthly generation, utilisation and disposal of flyash (including bottom ash) shall be submitted to the Ministry and its Regional Office.

**UML Compliance Status:** Complied.

We trust the information furnished by us shall meet your requirement.

Thanking You

Yours faithfully,  
For **Usha Martin Limited**

**(Authorized Signatory)**