

Ref: CPP/ENV/UML/EC/MOEF/20-21/02

Dated: 29.05.2020

To

Bharat Jyoti, IFS,  
Ministry Of Environment, Forest & Climate Change,  
Regional Office-Ranchi,  
Bungalow No.A-2, Shyamli Colony, Ranchi-834002  
Office No: 0651-2410007/2410002

Email: 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'19 to March'20**

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'19 to Mar'20 for your kind perusal and reference.

Thanking you and best regards,

Yours faithfully,  
For Usha Martin Ltd., Ranchi



Authorized Signatory

**Encl: Compliance status with all annexure**

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



DNV-GL  
Certified as an approved  
Manufacturer by  
DNV GLAS




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



Certified by BVC for the  
QMS to ISO 9001



Certified by BVC for the  
EMS to ISO 14001


	Captive Power Plant	Environmental Clearance
	2X10 MW CPP, Tatisilwai	MOEF Letter No.: J-13012/122/2008-IA.II(T) dated 07-04-2011
	Ranchi	Compliance status as on : 01.04.2020
		Period : Oct'2019 to March'2020

**Environmental Clearance Compliance Report (Period: Oct'2019 to March'2020)**

**Sub: 2 X 10MW Coal based Captive Thermal Power Plant at village Tatisilwai in Ranchi Dist., in Jharkhand - reg. Environmental Clearance**

With reference to our letter dated 29.12.2010 & 28.10.2011 on the subject mentioned above, the Ministry of Environment & Forests has examined the application


- It has been noted that the proposal is for setting up 2x10 MW Captive Coal Based Thermal Power Plant at village Tatisilwai, in Ranchi Distt., in Jharkhand. Land requirement will be 12.278 acres, which is within the extended boundary of the existing Steel Wire Plant. The co-ordinates of the site are at Latitude 23°21'56.07" N to 23°22'28.79" N and Longitude 85°25'14.29" E to 85°26'03.60" E. Coal requirement will be 0.183 MTPA, which will be obtained from own captive Lohari Coal Block near Daltonganj, in Jharkhand, which is about 200 Kms away. Environmental clearance for this coal block has been obtained. Ash and Sulphur contents in coal will be 41.70% and 0.3 to 0.5% respectively. About 0.0612 MTPA of Fly Ash will be generated, which will be supplied to cement manufacturer viz. M/s Holtec Cement Ltd. Source of water requirement will be from Subarnarekha River which flows at a distance of 0.5 Km from the boundary of the project site. Air cooled condenser will be used for main condensate cooling. Make up water requirement will be 26 cum / hr. There are no national parks, wildlife sanctuaries, heritage sites, tiger / biosphere reserves etc. within 10 km of the site. Public hearing was conducted on 14.09.2010. Cost of the project will be Rs 97.0 Crores.
- The project has been considered in accordance with the provisions of the EIA notification issued by the Ministry of Environment & Forests vide S.O. 1533 (E), dated September 14, 2006.
- Based on the information submitted by you, as at Para 2 above and others and presentation made before the Expert Appraisal Committee (Thermal Power) in its 17<sup>th</sup> Meeting held during February 7-8, 2011, the Ministry of Environment and Forests hereby accords environmental clearance under the provisions of EIA Notification dated September 14, 2006, subject to the compliance of the following Specific and General conditions:

	Captive Power Plant	Environmental Clearance
	2X10 MW CPP, Tatisilwai	MOEF Letter No.: J-13012/122/2008-IA.II(T) dated 07-04-2011
	Ranchi	Compliance status as on : 01.04.2020
		Period : Oct'2019 to March'2020


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-IA.II(T) dated 07-04-2011 and EC amendment Letter no.- J-13012/122/2008-IA.II(T) dated 09.10.2019

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>• <b>The MoEF&amp;CC has issued EC amendment vide letter dated 09.10.2019 and accords -</b></li> <li>• Permission to transport coal by road through for the period from 01.04.2018 to 31.03.2021 and also ex-post facto approval for the road transportation of coal during 01.04.2015 to 31.03.2018.</li> <li>• EC amendment letter is attached as <b>annex-1</b></li> </ul>
(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>

	Captive Power Plant	Environmental Clearance
	2X10 MW CPP, Tatisilwai	MOEF Letter No.: J-13012/122/2008-IA.II(T) dated 07-04-2011
	Ranchi	Compliance status as on : 01.04.2020
		Period : Oct'2019 to March'2020


(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-IA.II(T) on Dated 09.10.2019</li> <li>• Complied.</li> <li>• Coal report is attached for ref.<b>Annex-2</b></li> </ul>
(iv)	Stack of 70 m height shall be installed and provided with continuous online monitoring equipment's for Sox, Nox and PM2.5 and PM10. 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 monitoring equipment's for SOx, NOx and PM2.5 and PM10 has been installed &amp; connected to JSPCB/CPCB server. Completion certificate attached as <b>Annex-3 &amp; 4</b></li> <li>• Exit velocity of flue gas is maintained. Mercury emission from stack has been checked on periodic basis. Current report is attached. <b>(Annex-2)</b></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 degenerated 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> </ul>

	Captive Power Plant	Environmental Clearance
	2X10 MW CPP, Tatisilwai	MOEF Letter No.: J-13012/122/2008-IA.II(T) dated 07-04-2011
	Ranchi	Compliance status as on : 01.04.2020
		Period : Oct'2019 to March'2020


		<ul style="list-style-type: none"> <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 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>ETP of latest technology consists of neutralizing pit, guard pond, clarifier, filter press, sludge treatment plant and storage tank etc have been installed to take care of the waste of Power plant. effluent</li> <li>We also installed Sewage Treatment system (STP). All the function of ETP and STP are in closed loop, as such</li> </ul>

	Captive Power Plant	Environmental Clearance
	2X10 MW CPP, Tatisilwai	MOEF Letter No.: J-13012/122/2008-IA.II(T) dated 07-04-2011
	Ranchi	Compliance status as on : 01.04.2020
		Period : Oct'2019 to March'2020


		<p>there will be no chance of getting mixed with storm water.</p> <ul style="list-style-type: none"> <li>• The output of ETP Treated water is used in Brick Plant &amp; dust separation.</li> <li>• Maintain ZERO discharge from CPP</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.	<ul style="list-style-type: none"> <li>• Complied.</li> </ul>
(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.	<ul style="list-style-type: none"> <li>• There are 03 nos of fly ash brick production unit has been installed &amp; all are in operation.</li> <li>• We have achieved 98% utilization rate in last one year</li> <li>• The Ash utilization report for last one year is attached for your ref. as <b><u>Annex-7</u></b></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> </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.	

	Captive Power Plant	Environmental Clearance
	2X10 MW CPP, Tatisilwai	MOEF Letter No.: J-13012/122/2008-IA.II(T) dated 07-04-2011
	Ranchi	Compliance status as on : 01.04.2020
		Period : Oct'2019 to March'2020


(xvii)	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>Complied.</li> <li>Phase wise plantation has been commenced from the beginning of the project</li> <li>Report 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>A NGO under M/s Usha Martin 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 a CSR arm, Krishi Gram Vikas Kendra (KGVK). 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>

	Captive Power Plant	Environmental Clearance
	2X10 MW CPP, Tatisilwai	MOEF Letter No.: J-13012/122/2008-IA.II(T) dated 07-04-2011
	Ranchi	Compliance status as on : 01.04.2020
		Period : Oct'2019 to March'2020


(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. CSR report Attached via <b>Annex-9</b></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 via <b>Annex-10</b></li> </ul>
<b>GENERAL CONDITIONS</b>		
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 Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	<ul style="list-style-type: none"> <li>Complied</li> <li>NO liquid fuel used in boiler during this period.</li> </ul>

	Captive Power Plant	Environmental Clearance
	2X10 MW CPP, Tatisilwai	MOEF Letter No.: J-13012/122/2008-IA.II(T) dated 07-04-2011
	Ranchi	Compliance status as on : 01.04.2020
		Period : Oct'2019 to March'2020


(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. Report attached as <u>Annex-2</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</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 stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	<ul style="list-style-type: none"> <li>Being Complied.</li> <li>Monitored regularly in NABL Accredited Environmental laboratory.</li> <li>We are now accredited by NABL for chemical testing of Environmental</li> </ul>

	Captive Power Plant	Environmental Clearance
	2X10 MW CPP, Tatisilwai	MOEF Letter No.: J-13012/122/2008-IA.II(T) dated 07-04-2011
	Ranchi	Compliance status as on : 01.04.2020
		Period : Oct'2019 to March'2020


		parameters. Accreditation certificate is attached as <b>Annex-11</b>
(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 Parisad / Municipal Corporation, urban local Body and the Local NGO, if any from whom suggestions / representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	<ul style="list-style-type: none"> <li>Complied.</li> <li>Copy of Clearance letter sent is attached for ref. <b>Annex 12</b></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	Environmental Clearance
	2X10 MW CPP, Tatisilwai	MOEF Letter No.: J-13012/122/2008-IA.II(T) dated 07-04-2011
	Ranchi	Compliance status as on : 01.04.2020
		Period : Oct'2019 to March'2020


(xii)	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 & PM10), SO2, NOx (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	<ul style="list-style-type: none"> <li>Complied.</li> <li>Link: <a href="http://www.ushamartin.com/about-us/">http://www.ushamartin.com/about-us/</a></li> <li>Picture of Display board is attached via <b><u>Annex-13</u></b></li> <li>All prescribe parameters are included in display board.</li> </ul>
(xiii)	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.	<ul style="list-style-type: none"> <li>Complied.</li> <li>Form-V is uploaded in website.</li> <li>Link: <a href="http://www.ushamartin.com/about-us/">http://www.ushamartin.com/about-us/</a></li> </ul>
(xiv)	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.	<ul style="list-style-type: none"> <li>Complied.</li> </ul>

	Captive Power Plant	Environmental Clearance
	2X10 MW CPP, Tatisilwai	MOEF Letter No.: J-13012/122/2008-IA.II(T) dated 07-04-2011
	Ranchi	Compliance status as on : 01.04.2020
		Period : Oct'2019 to March'2020

(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>A 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>The fund for this small project of Rs.100 cr. is already provided from the existing integrated fund for various projects' expansion</li> <li>Documents regarding financial closure for this project is attached in <b>Annex-14</b></li> </ul>


	Captive Power Plant	Environmental Clearance
	2X10 MW CPP, Tatisilwai	MOEF Letter No.: J-13012/122/2008-IA.II(T) dated 07-04-2011
	Ranchi	Compliance status as on : 01.04.2020
		Period : Oct'2019 to March'2020

(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>• Noted for compliance</li> </ul>
5	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.	<ul style="list-style-type: none"> <li>• Noted for compliance</li> </ul>
6	The environmental clearance accorded shall be valid for a period of 5 years to start operations by the power plant.	<ul style="list-style-type: none"> <li>• Noted for compliance</li> </ul>
7	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.	<ul style="list-style-type: none"> <li>• Noted for compliance</li> </ul>
8	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.	<ul style="list-style-type: none"> <li>• Noted for compliance</li> </ul>
9	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.	<ul style="list-style-type: none"> <li>• Noted for compliance</li> </ul>

	Captive Power Plant	Environmental Clearance
	2X10 MW CPP, Tatisilwai	MOEF Letter No.: J-13012/122/2008-IA.II(T) dated 07-04-2011
	Ranchi	Compliance status as on : 01.04.2020
		Period : Oct'2019 to March'2020

**Others conditions:** (As Per EC amendment letter vide letter No-J-13012/122/2008-IA.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.	Court case is under process and date of hearing was 13.03.2020 for appearance. Next Date :Awaited
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.	Court case is under process; Court order is yet to come.
iii.	Coal shall be procured through e-auction only and not from open market.	<ul style="list-style-type: none"> <li>Complied. We are procuring coal through e-auction</li> </ul>
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>

	Captive Power Plant	Environmental Clearance
	2X10 MW CPP, Tatisilwai	MOEF Letter No.: J-13012/122/2008-IA.II(T) dated 07-04-2011
	Ranchi	Compliance status as on : 01.04.2020
		Period : Oct'2019 to March'2020

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>
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 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.

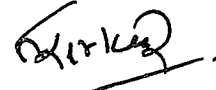
10. The matter was placed before the Re-constituted Expert Appraisal Committee (Thermal Power) in its meetings held on 21.2.2020. In acceptance of the

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,



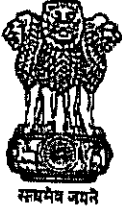
(Dr. S. Kerketta)  
Director, IA.I

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:**

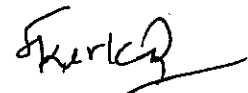
- a) **Ex-post facto permission for sourcing of coal through e-auction and transportation by road for a period of three years i.e. till 31.03.2018;**
- b) **Permission to transport coal by road for further period of three years, i.e. till 31.03.2021; A final decision to allow road permanently will be 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, 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

Mr. Tannoy Sinha  
C.P.P.



**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:

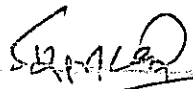
Sr.No	Year	Quantity (MT)
1	FY13	63,782
2	FY14	67,480
3	FY15	1,12,995
4	FY16	1,14,883
5	FY17	1,17,258
6	FY18	1,25,134
Total		6,01,532

7. 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.
5. The Secretary (Environment), Forests and Environment Department Government of Jharkhand.
6. The District Collector, Ranchi District, Govt. of Jharkhand.
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



TC - 5404

UML/F/27 (AA)

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 AMBIENT AIR MONITORING

### Sample Details

### Client Details

Date & Time of Sampling : 16.12.2019 & 10:45AM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/DEC/MG/32	Client Address : Tatisilwai, Ranchi
Type of Sample : Ambient Air	Client Code : UML/CPP/03
Duration of Sampling : 24 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 17.12.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 17.12.2019
Testing Condition : 24.1°C, 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000361F	Date of Report : 26.12.2019

### REPORT

Sl.No.	Sample Location	Parameter	Unit	Desirable limit *	Results	Test Method
1	MAIN GATE	Particulate Matter PM2.5	µg/M <sup>3</sup>	≤60.00	50.82	SOP/UML/WT/02 Based on CPCB guideline Vol-I : 2012
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	71.82	IS:5182 (PT - 23) : 2006
3		Sulphur Dioxide	µg/M <sup>3</sup>	≤80.00	20.81	IS:5182 (PT - 2) : 1999 Reaffirmed 2001
4		Nitrogen Dioxide	µg/M <sup>3</sup>	≤80.00	23.71	IS:5182 (PT - 6) : 2006

\* Norms: National Ambient Air Quality Standards as per CPCB vide notification dated 18<sup>th</sup> 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 be reproduced except in full and without the written permission of environmental laboratory, CPP, UML, Ranchi

TESTED BY  
(Manish Kumar)CHECKED BY  
(Tanmay Roy)AUTHORISED BY  
(Tanmoy Sinha)

CPP (2 X 10MW)

USHAMARTIN LTD.

TATISILWAI, RANCHI

JHARKHAND, PIN-835103



# usha martin



TC - 5404

UML/F/27 (AA)

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 AMBIENT AIR MONITORING

### Sample Details

### Client Details

Date & Time of Sampling : 14.12.2019 & 12:10PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/DEC/MTG/30	Client Address : Tatisilwai, Ranchi
Type of Sample : Ambient Air	Client Code : UML/CPP/03
Duration of Sampling : 24 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 15.12.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 15.12.2019
Testing Condition : 24.0°C, 60%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000359F	Date of Report : 26.12.2019

### 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	39.66	SOP/UML/WT/02 Based on CPCB guideline Vol-I : 2012
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	69.06	IS:5182 (PT – 23) : 2006
3		Sulphur Dioxide	µg/M <sup>3</sup>	≤80.00	21.27	IS:5182 (PT – 2) : 1999 Reaffirmed 2001
4		Nitrogen Dioxide	µg/M <sup>3</sup>	≤80.00	29.53	IS:5182 (PT – 6) : 2006

\* Norms: National Ambient Air Quality Standards as per CPCB vide notification dated 18<sup>th</sup> 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 be reproduced except in full and without the written permission of environmental laboratory, CPP, UML, Ranchi

*Manish*

TESTED BY  
(Manish Kumar)

*Tanmay*

CHECKED BY  
(Tanmay Roy)

*Tanmoy*

AUTHORISED BY  
(Tanmoy Sinha)

UML - RANCHI  
TATISILWAI, RANCHI - 835103  
JHARKHAND

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 AMBIENT AIR MONITORING

### Sample Details

### Client Details

Date & Time of Sampling : 15.12.2019 & 11:25AM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/DEC/SLF/31	Client Address : Tatisilwai, Ranchi
Type of Sample : Ambient Air	Client Code : UML/CPP/03
Duration of Sampling : 24 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 16.12.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 16.12.2019
Testing Condition : 24.1°C, 61%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000360F	Date of Report : 26.12.2019

### REPORT

Sl.No.	Sample Location	Parameter	Unit	Desirable limit *	Results	Test Method
1	SLF	Particulate Matter PM2.5	µg/M <sup>3</sup>	≤60.00	40.29	SOP/UML/WT/02 Based on CPCB guideline Vol-I : 2012
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	52.63	IS:5182 (PT – 23) : 2006
3		Sulphur Dioxide	µg/M <sup>3</sup>	≤80.00	19.30	IS:5182 (PT – 2) : 1999 Reaffirmed 2001
4		Nitrogen Dioxide	µg/M <sup>3</sup>	≤80.00	17.54	IS:5182 (PT – 6) : 2006

\* Norms: National Ambient Air Quality Standards as per CPCB vide notification dated 18<sup>th</sup> 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 be reproduced except in full and without the written permission of environmental laboratory, CPP, UML, Ranchi

TESTED BY  
(Manish Kumar)

CHECKED 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

### AMBIENT AIR MONITORING

**Sample Details**
**Client Details**

Date & Time of Sampling : 17.12.2019 & 10:50 AM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/DEC/WTP/33	Client Address : Tatisilwai, Ranchi
Type of Sample : Ambient Air	Client Code : UML/CPP/03
Duration of Sampling : 24 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 18.12.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 18.12.2019
Testing Condition : 24.1°C, 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC54041900000362F	Date of Report : 26.12.2019

**REPORT**

Sl.No.	Sample Location	Parameter	Unit	Desirable limit *	Results	Test Method
1	WTP	Particulate Matter PM2.5	µg/M <sup>3</sup>	≤60.00	55.84	SOP/UML/WT/02 Based on CPCB guideline Vol-I : 2012
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	77.90	IS:5182 (PT – 23) : 2006
3		Sulphur Dioxide	µg/M <sup>3</sup>	≤80.00	11.20	IS:5182 (PT – 2) : 1999 Reaffirmed 2001
4		Nitrogen Dioxide	µg/M <sup>3</sup>	≤80.00	12.17	IS:5182 (PT – 6) : 2006

\* Norms: National Ambient Air Quality Standards as per CPCB vide notification dated 18<sup>th</sup> 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 be reproduced except in full and without the written permission of environmental laboratory, CPP, UML, Ranchi

*mis*  
TESTED BY  
(Manish Kumar)

*T*  
CHECKED BY  
(Tanmay Roy)

*Sinha*  
AUTHORISED BY  
(Tanmoy Sinha)

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



# usha martin



TC - 5404

UML/F/27 (S)

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 STACK MONITORING

### Sample Details

### Client Details

Date & Time of Sampling : 12.12.2019 & 10:10 AM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/DEC/STK/29	Client Address : Tatisilwai, Ranchi
Type of Sample : STACK	Client Code : UML/ CPP/03
Duration of Sampling : 2 hrs	State : Jharkhand
Sample Drawn by : Mr. Suraj Kumar	Date of Receipt of Sample : 12.12.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 13.12.2019
Testing Condition : 24.2°C, 60%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000358F	Date of Report : 26.12.2019

### TEST REPORT

Sl. No.	Description	Unit	Desirable limit	Result	Test Method
1	Location			CHIMNEY	
2	Area of Stack	(M <sup>2</sup> )		1.485	
3	Temperature of flue gas	(°C)		110.0	
4	Average Velocity	(m/s)		19.57	
6	Particulate matter	(mg/Nm <sup>3</sup> )	50.00	46.32	IS 11255, (part-1) 1985 reaffirmed 2003
7	Sulphur Dioxide	(mg/Nm <sup>3</sup> )	350.00	223.69	IS 11255, (part-2) 1985 reaffirmed 2003
8	Nitrogen Oxides	(mg/Nm <sup>3</sup> )	350.00	181.89	IS 11255, (part-7) 2005

**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>.

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 submitted by the client.
3. This report shall will be reproduced expect in full and without the written permission of environmental laboratory, CPP, UML, Ranchi

*Manish*  
TESTED BY  
(Manish Kumar)

*Tanmay*  
CHECKED BY  
(Tanmay Roy)

*Tanmay*  
AUTHORISED BY  
(Tanmoy Sinha)  
CPP (2 X 10MW)  
USHAMARTIN LTD.  
TATISIL WAL, 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 OF COAL

### Sample Details

### Client Details


Date & Time of Sampling : 07.12.2019 & 10:30 AM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : CPP/DEC/01	Client Address : Tatisilwai, Ranchi
Type of Sample : COAL	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr SUBHAS CHATTERJEE	Date of Receipt of Sample : 07.12.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 07.12.2019
Testing Condition : 24.0°C , 61%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000329F	Date of Report : 24.12.2019

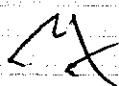
## COAL TEST REPORT

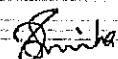
Sl.no.	Analysis	unit	Result	Test method
1	MOISTURE	%	0.41	IS : 1350 (part-1) 1984 RA 2013
2	ASH	%	38.59	IS : 1350 (part-1) 1984 RA 2013
3	VM	%	21.49	IS : 1350 (part-1) 1984 RA 2013
4	GCV	Kcal/kg	4620.00	IS : 1350 (part-2) 1970 RA 2015

### 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 submitted by the client.
3. This report shall will be reproduced expect in full and without the written permission of environmental laboratory, CPP, UML, Ranchi.

  
TESTED BY  
(Manish Kumar)

  
CHECKED 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 DRINKING WATER

### Sample Details

### Client Details

Date & Time of Sampling : 06.12.2019 & 5:40PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : DEC/DW/ CPP/09	Client Address : Tatisilwai, Ranchi
Type of Sample : DRINKING WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 06.12.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 08.12.2019
Testing Condition : 23.4°C , 55%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000326F	Date of Report : 18.12.2019

### REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		6.50 to 8.50	6.82	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr	500.00	46.0	APHA 22 <sup>nd</sup> Edition-2540 C
3	Turbidity	NTU	1.00	< 0.10	APHA 22 <sup>nd</sup> Edition-2130 B
4	Alkalinity	Mg/ltr	200.00	12.0	IS:3025, (part-23) 2014
5	Acidity	Mg/ltr		48.0	IS:3025, (part-22) 2014
6	Total hardness (as CaCO <sub>3</sub> )	Mg/ltr	300.00	32.0	IS:3025, (part-21) 2014
7	Calcium (as CaCO <sub>3</sub> )	Mg/ltr	75.00	16.0	IS:3025, (part-40) 2014
8	Magnesium (as CaCO <sub>3</sub> )	Mg/ltr	30.00	2.0	APHA 22 <sup>nd</sup> Edition -3500mg B
9	Chloride	Mg/ltr	250.00	14.18	IS:3025, (part-32) 2014
10	Sulphate	Mg/ltr	200.00	1.42	APHA 22 <sup>nd</sup> Edition-4500 So <sub>4</sub> 2
11	Residual free chlorine	Mg/ltr	0.20	< 0.10	IS:3025, (part-26) 2014
12	Iron	Mg/ltr	0.30	< 0.075	IS:3025, (part-53) 2014
13	Nitrate	Mg/ltr	45.00	1.71	IS:3025, (part-39) 2014
14	Nitrite	Mg/ltr		0.99	APHA 22 <sup>nd</sup> Edition-4500No <sub>2</sub> B
15	Silica	Mg/ltr		0.22	IS:3025, (part-35) 2014
16	Temperature	°C		24.0	IS:3025, (part-9) 2006

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

### 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 will be reproduced expect in full and without the written permission of environmental laboratory, CPP, UML, Ranchi.

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 DRINKING WATER

### Sample Details

### Client Details

Date & Time of Sampling : 06.12.2019 & 5:40PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : DEC/DW/ CPP/09	Client Address : Tatisilwai, Ranchi
Type of Sample : DRINKING WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 06.12.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 08.12.2019
Testing Condition : 23.4°C , 55%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000326F	Date of Report : 18.12.2019

### 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/ltr	1.00	0.011
5	Manganese	Mg/ltr	0.10	0.047
6	Mercury	Mg/ltr	0.001	<0.0005
7	Lead	Mg/ltr	0.01	<0.005
8	Zinc	Mg/ltr	5.00	<0.400

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

#### 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 submitted by the client.
3. This report shall will be reproduced expect in full and without the written permission of environmental laboratory, CPP, UML, Ranchi.

TESTED BY  
(Manish Kumar)

CHECKED 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

### ETP WATER

#### Sample Details

#### Client Details

Date & Time of Sampling : 06.12.2019 & 6:00PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : DEC/EW/ CPP/11	Client Address : Tatisilwai, Ranchi
Type of Sample : TREATED ETP WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 06.12.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 08.12.2019
Testing Condition : 23.4°C , 55%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000328F	Date of Report : 18.12.2019


### REPORT


SI.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		5.50 – 9.00	7.12	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr		912	APHA 22 <sup>nd</sup> Edition-2540 C
3	Total Suspended solids	Mg/ltr	100.00	10.2	APHA 22 <sup>nd</sup> Edition-2540 D
4	Dissolved oxygen	Mg/ltr		9.5	IS:3025, (part-38) 2014
5	Oil & Grease	Mg/ltr	10.00	8.6	IS:3025, (part-39) 2014


**\*\* 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.**

#### 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 submitted by the client.
3. This report shall will be reproduced expect in full and without the written permission of environmental laboratory, CPP, UML, Ranchi.

  
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 ETP WATER

### Sample Details

### Client Details

Date & Time of Sampling : 06.12.2019 & 6:00PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : DEC/EW/CPP/11	Client Address : Tatisilwai, Ranchi
Type of Sample : TREATED ETP WATER	Client Code : UML/CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 06.12.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 08.12.2019
Testing Condition : 23.4°C, 55%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000328F	Date of Report : 18.12.2019

### TEST REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Lead	Mg/ltr	0.10	<0.10
2	Zinc	Mg/ltr	5.00	1.32
3	Phosphate	Mg/ltr	5.00	1.96
4	Chloride	Mg/ltr	-	702
5	BOD, 3 days at 27 °C	Mg/ltr	30.00	4.48
6	COD	Mg/ltr	250.00	45
7	Iron	Mg/ltr	3.00	2.01
8	Manganese	Mg/ltr	2.00	0.81

\*\* 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.

#### 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 submitted by the client.
3. This report shall will be reproduced expect in full and without the written permission of environmental laboratory, CPP, UML, Ranchi.

TESTED BY  
(Manish Kumar)

CHECKED 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 GROUND WATER

### Sample Details

### Client Details

Date & Time of Sampling : 06.12.2019 & 5.40PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : DEC/DW/ CPP/10	Client Address : Tatisilwai, Ranchi
Type of Sample : GROUND WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 06.12.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 08.12.2019
Testing Condition : 23.4°C, 55%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000327F	Date of Report : 18.12.2019

### REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		6.50 to 8.50	7.13	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr	500.00	212	APHA 22 <sup>nd</sup> Edition-2540 C
3	Turbidity	NTU	1.00	23.14	APHA 22 <sup>nd</sup> Edition-2130 B
4	Alkalinity	Mg/ltr	200.00	132.0	IS:3025, (part-23) 2014
5	Acidity	Mg/ltr		24.0	IS:3025, (part-22) 2014
6	Total hardness (as CaCO <sub>3</sub> )	Mg/ltr	300.00	160.0	IS:3025, (part-21) 2014
7	Calcium (as CaCO <sub>3</sub> )	Mg/ltr	75.00	80.0	IS:3025, (part-40) 2014
8	Magnesium (as CaCO <sub>3</sub> )	Mg/ltr	30.00	80.0	APHA 22 <sup>nd</sup> Edition -3500mg B
9	Chloride	Mg/ltr	250.00	63.98	IS:3025, (part-32) 2014
10	Sulphate	Mg/ltr	200.00	27.24	APHA 22 <sup>nd</sup> Edition-4500 So <sub>4</sub> 2
11	Residual free chlorine	Mg/ltr	0.20	<0.10	IS:3025, (part-26) 2014
12	Iron	Mg/ltr	0.30	1.47	IS:3025, (part-53) 2014
13	Nitrate	Mg/ltr	45.00	3.43	IS:3025, (part-39) 2014
14	Nitrite	Mg/ltr		<0.05	APHA 22 <sup>nd</sup> Edition-4500No <sub>2</sub> B
15	Silica	Mg/ltr		14.12	IS:3025, (part-35) 2014
16	Temperature	°C		24.0	IS:3025, (part-9) 2006

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

### 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 submitted by the client.
3. This report shall will be reproduced exact in full and without the written permission of environmental laboratory, CPP, UML, Ranchi.

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

### Sample Details

### Client Details

Date & Time of Sampling : 06.12.2019 & 5.40PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : DEC/DW/ CPP/10	Client Address : Tatisilwai, Ranchi
Type of Sample : GROUND WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 06.12.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 08.12.2019
Testing Condition : 23.4°C , 55%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000327F	Date of Report : 18.12.2019
Date & Time of Sampling : 06.12.2019 & 5.40PM	Client Name : Usha Martin Limited(CPP Div)

## 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/ltr	1.00	0.38
5	Manganese	Mg/ltr	0.10	0.094
6	Mercury	Mg/ltr	0.001	<0.0005
7	Lead	Mg/ltr	0.01	<0.005
8	Zinc	Mg/ltr	5.00	3.11

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

### 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 submitted by the client.
3. This report shall will be reproduced expect in full and without the written permission of environmental laboratory, CPP, UML, Ranchi.

TESTED BY  
Manish Kumar

CHECKED BY  
(Tanmay Roy)

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



# usha martin



UML/F/27 (N)

TC - 5404

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 NOISE MONITORING

### Sample Details

### Client Details

Date of Sampling	: 15.12.2019 – 20.12.2019	Client Name	: Usha Martin limited (CPP)
Sample ID	: DEC/ CPP/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. Suraj Kumar	Test Performed	: At Permanent Lab
Sample Plan Reference	: UML/DOC/110	Date of Report	: 22.12.2019
UNIQUE LAB REPORT NO	: TC540419000000366F	Sample Description	: Measurement of Noise at UML CPP Area

## TEST REPORT OF NOISE LEVEL


Monitoring Date	15.12.2019 – 20.12.2019		
Station Location	Noise Results in dB(A)		
	AVERAGE	MAXIMUM	MINIMUM
CPP MAIN GATE	64.8	69.2	59.6
CPP WTP AREA	64.5	68.5	59.4
CPP BOILER AREA	73.9	82.5	66.5
CPP ADM BUILDING	66.2	71.4	63.5
CPP COAL YARD AREA	55.2	63.5	50.2


### Ambient Air Quality Norms in Respect of Noise

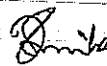
AREA	CATEGORY AREA	NOISE LEVEL in dB(A)	
		DAY TIME	NIGHT TIME
A	INDUSTRIAL AREA	75	70
B	COMMERCIAL AREA	65	55
C	RESIDENTIAL AREA	55	45
D	SILENCE ZONE	50	40

### Declaration:-

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 submitted by the client.
3. This report shall will be reproduced expect in full and without the written permission of environmental laboratory, CPP, UML, Ranchi.

  
TESTED BY  
(Manish Kumar)

  
CHECKED 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 STACK MONITORING

### Sample Details

### Client Details

Date & Time of Sampling : 12.12.2019 & 10:10 AM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/DEC/STK/29	Client Address : Tatisilwai, Ranchi
Type of Sample : STACK	Client Code : UML/CPP/03
Duration of Sampling : 2 hrs	State : Jharkhand
Sample Drawn by : Mr. Suraj Kumar	Date of Receipt of Sample : 12.12.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 12.12.2019
Testing Condition : 24.2°C, 60%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000358F	Date of Report : 26.12.2019

### TEST REPORT


Sl. No.	Description	Unit	Desirable limit	Result	Test Method
1	Location			CHIMNEY	
2	Area of Stack	(M <sup>2</sup> )		1.485	
3	Temperature of flue gas	(°C)		110.0	
4	Average Velocity	(m/s)		22.54	
6	Particulate matter	(mg/Nm <sup>3</sup> )	50.00	46.32	IS 11255, (part-1) 1985 reaffirmed 2003
7	Sulphur Dioxide	(mg/Nm <sup>3</sup> )	350.00	223.69	IS 11255, (part-2) 1985 reaffirmed 2003
8	Nitrogen Oxides	(mg/Nm <sup>3</sup> )	350.00	181.89	IS 11255, (part-7) 2005
9	Mercury	( µg/m <sup>3</sup> )		BDL*	


**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>. \*BDL denotes below limit for Hg <0.03 µg/m<sup>3</sup>

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 submitted by the client.
3. This report shall will be reproduced exact in full and without the written permission of environmental laboratory, CPP, UML, Ranchi

  
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 OF COAL

### Sample Details

### Client Details

Date & Time of Sampling : 10.12.2019 & 10:15AM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : CPP/MAR/01	Client Address : Tatisilwai, Ranchi
Type of Sample : COAL	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr SUBHAS CHATTERJEE	Date of Receipt of Sample : 10.12.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 10.12.2019
Testing Condition : 24.1°C, 60%RS	Test Performed : At Permanent Lab
LAB REPORT NO : TC509F	Date of Report : 20.12.2019

### COAL TEST REPORT

Sl.no.	Analysis	unit	Result	Test method
1	MOISTURE	%	4.23	IS : 1350 (part-1) 1984 RA 2013
2	ASH	%	39.91	IS : 1350 (part-1) 1984 RA 2013
3	VM	%	30.13	IS : 1350 (part-1) 1984 RA 2013
4	GCV	Kcal/kg	4471.00	IS : 1350 (part-2) 1970 RA 2015
5	SULPHUR	%	0.30	IS : 1350 (part-3) 1969 RA 2015

#### 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 submitted by the client.
3. This report shall will be reproduced expect in full and without the written permission of environmental laboratory, CPP, UML, Ranchi.

TESTED BY  
(Manish Kumar)

CHECKED BY  
(Tanmay Roy)

AUTHORISED BY  
(Tanmoy Sinha)

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



# usha martin



TC - 5404

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: 06513051 683, 06513051 689 Fax: 06513051 409/410

## TEST REPORT

### NOISE MONITORING

#### Sample Details

#### Client Details

Date of Sampling	: 15.03.2020 – 20.03.2020	Client Name	: Usha Martin limited (CPP)
Sample ID	: MAR/CPP/NOS/03	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. Suraj Kumar	Test Performed	: At Permanent Lab
Sample Plan Reference	: UML/DOC/110	Date of Report	: 23.03.2020
UNIQUE LAB REPORT NO	: TC540419000000445F	Sample Description	: Measurement of Noise at UML CPP Area

### TEST REPORT OF NOISE LEVEL

Monitoring Date	15.03.2020 – 20.03.2020		
	Noise Results in dB(A)		
Station Location	AVERAGE	MAXIMUM	MINIMUM
CPP MAIN GATE	64.1	69.4	56.2
CPP WTP AREA	64.5	68.5	59.4
CPP BOILER AREA	74.8	84.2	68.4
CPP ADM BUILDING	66.8	72.4	55.4
CPP COAL YARD AREA	58.1	65.9	49.2

#### 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:-

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 submitted by the client.
3. This report shall will be reproduced expect in full and without the written permission of environmental laboratory, CPP, UML, Ranchi.

TESTED BY  
(Manish Kumar)

CHECKED 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\\_wtrnc@ushamartin.co.in](mailto:cpp_wtrnc@ushamartin.co.in)

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

## TEST REPORT STACK MONITORING

### Sample Details

### Client Details

Date & Time of Sampling : 04.03.2020 & 12:30PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/MAR/STACK/40	Client Address : Tatisilwai, Ranchi
Type of Sample : STACK	Client Code : UML/ CPP/03
Duration of Sampling : 2 hrs	State : Jharkhand
Sample Drawn by : Mr. Suraj Kumar	Date of Receipt of Sample : 4.03.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 4.03.20-5.03.20
Testing Condition : 25.1°C, 58%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540420000000442F	Date of Report : 23.03.2020

### TEST REPORT

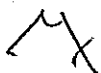
Sl. No.	Description	Unit	Desirable limit	Result	Test Method
1	Location			CHIMNEY	
2	Area of Stack	(M <sup>2</sup> )		1.485	
3	Temperature of flue gas	(°C)		120.0	
4	Average Velocity	(m/s)		19.52	
6	Particulate matter	(mg/Nm <sup>3</sup> )	50.00	47.23	IS 11255, (part-1) 1985 reaffirmed 2003
7	Sulphur Dioxide	(mg/Nm <sup>3</sup> )	350.00	251.31	IS 11255, (part-2) 1985 reaffirmed 2003
8	Nitrogen Oxides	(mg/Nm <sup>3</sup> )	350.00	192.37	IS 11255, (part-7) 2005


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>.

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 submitted by the client.
3. This report shall will be reproduced expect in full and without the written permission of environmental laboratory, CPP, UML, Ranchi

  
TESTED BY  
(Manish Kumar)

  
CHECKED BY  
(Tanmay Roy)

  
AUTHORISED BY  
(Tanmoy Sinha)

CPP (2 X 10MW)  
USHAMARTIN LTD.  
TATISILWAI, 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 GROUND WATER

### Sample Details

### Client Details

Date & Time of Sampling : 08.03.2020 & 5:30PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : MAR/DW/CPP/10	Client Address : Tatisilwai, Ranchi
Type of Sample : GROUND WATER	Client Code : UML/CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Anil Kumar Pradhan	Date of Receipt of Sample : 08.03.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 09.03.2020
Testing Condition : 23.8°C, 55.3%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540420000000400F	Date of Report : 23.03.2020

### REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		6.50 to 8.50	7.02	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr	500.00	232.0	APHA 22 <sup>nd</sup> Edition-2540 C
3	Turbidity	NTU	1.00	0.40	APHA 22 <sup>nd</sup> Edition-2130 B
4	Alkalinity	Mg/ltr	200.00	104.0	IS:3025, (part-23) 2014
5	Acidity	Mg/ltr		12.0	IS:3025, (part-22) 2014
6	Total hardness (as CaCO <sub>3</sub> )	Mg/ltr	300.00	96.0	IS:3025, (part-21) 2014
7	Calcium (as CaCO <sub>3</sub> )	Mg/ltr	75.00	56.0	IS:3025, (part-40) 2014
8	Magnesium (as CaCO <sub>3</sub> )	Mg/ltr	30.00	40.0	APHA 22 <sup>nd</sup> Edition -3500mg B
9	Chloride	Mg/ltr	250.00	40.0	IS:3025, (part-32) 2014
10	Sulphate	Mg/ltr	200.00	9.05	APHA 22 <sup>nd</sup> Edition-4500 So <sub>4</sub> 2
11	Residual free chlorine	Mg/ltr	0.20	<0.10	IS:3025, (part-26) 2014
12	Iron	Mg/ltr	0.30	6.13	IS:3025, (part-53) 2014
13	Nitrate	Mg/ltr	45.00	0.15	IS:3025, (part-39) 2014
14	Nitrite	Mg/ltr		< 0.05	APHA 22 <sup>nd</sup> Edition-4500No <sub>2</sub> B
15	Silica	Mg/ltr		25.85	IS:3025, (part-35) 2014
16	Temperature	°C		22.3	IS:3025, (part-9) 2006

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

### 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 submitted by the client.
3. This report shall will be reproduced expect in full and without the written permission of environmental laboratory, CPP, UML, Ranchi.

*mil*

TESTED BY  
(Manish Kumar)

*Tanmay*

CHECKED BY  
(Tanmay Roy)

*Sinha*

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 GROUND WATER

### Sample Details

### Client Details

Date & Time of Sampling : 08.03.2020 & 5:30PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : MAR/DW/ CPP/10	Client Address : Tatisilwai, Ranchi
Type of Sample : GROUND WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Anil Kumar Pradhan	Date of Receipt of Sample : 08.03.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 09.03.2020
Testing Condition : 23.8°C, 55.3%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540420000000400F	Date of Report : 23.03.2020
Date & Time of Sampling : 08.03.2020 & 5:30PM	Client Name : Usha Martin Limited(CPP Div)


### 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/ltr	1.00	0.44
5	Manganese	Mg/ltr	0.10	0.049
6	Mercury	Mg/ltr	0.001	<0.0005
7	Lead	Mg/ltr	0.01	<0.005
8	Zinc	Mg/ltr	5.00	2.09

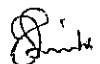
\*\* IS: 10500(2012): Drinking Water Specification

#### 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 submitted by the client.
3. This report shall will be reproduced expect in full and without the written permission of environmental laboratory, CPP, UML, Ranchi.

  
TESTED BY  
(Manish Kumar)

  
CHECKED 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\\_wtrnc@ushamartin.co.in](mailto:cpp_wtrnc@ushamartin.co.in)

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

## TEST REPORT

### ETP WATER

#### Sample Details

#### Client Details

Date & Time of Sampling : 08.03.2020 & 5:45PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : MAR/EW/ CPP/11	Client Address : Tatisilwai, Ranchi
Type of Sample : TREATED ETP WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Anil Kumar Pradhan	Date of Receipt of Sample : 08.03.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 08.03.2020
Testing Condition : 23.8°C , 55%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540420000000401F	Date of Report : 23.03.2020

## REPORT


Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		5.50 – 9.00	7.80	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr	100.00	862.0	APHA 22 <sup>nd</sup> Edition-2540 C
3	Total Suspended solids	Mg/ltr	100.00	21.37	APHA 22 <sup>nd</sup> Edition-2540 D
4	Dissolved oxygen	Mg/ltr		2.4	IS:3025, (part-38) 2014
5	Oil & Grease	Mg/ltr	10.00	9.33	IS:3025, (part-39) 2014


**\*\* 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.**

#### 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 submitted by the client.
3. This report shall will be reproduced expect in full and without the written permission of environmental laboratory, CPP, UML, Ranchi.

  
TESTED BY  
(Manish Kumar)

  
CHECKED 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 ETP WATER

### Sample Details

### Client Details

Date & Time of Sampling : 08.03.2020 & 5:45PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : MAR/EW/ CPP/11	Client Address : Tatisilwai, Ranchi
Type of Sample : TREATED ETP WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Anil Kumar Pradhan	Date of Receipt of Sample : 08.03.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 08.03.2020
Testing Condition : 23.8°C, 55%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540420000000401F	Date of Report : 23.03.2020

### TEST REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Lead	Mg/ltr	0.10	<0.10
2	Zinc	Mg/ltr	5.00	1.24
3	Phosphate	Mg/ltr	5.00	1.12
4	Chloride	Mg/ltr	-	1251
5	BOD, 3 days at 27 °C	Mg/ltr	30.00	2.0
6	COD	Mg/ltr	250.00	16.0
7	Iron	Mg/ltr	3.00	1.46
8	Manganese	Mg/ltr	2.00	0.38

\*\* 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.

#### 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 submitted by the client.
3. This report shall will be reproduced expect in full and without the written permission of environmental laboratory, CPP, UML, Ranchi.

TESTED BY  
(Manish Kumar)

CHECKED 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 DRINKING WATER

### Sample Details

### Client Details

Date & Time of Sampling : 08.03.2020 & 5:35 PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : MAR/DW/ CPP/09	Client Address : Tatisilwai, Ranchi
Type of Sample : DRINKING WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Anil Kumar Pradhan	Date of Receipt of Sample : 08.03.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 09.03.2020
Testing Condition : 23.8°C , 55%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540420000000399F	Date of Report : 23.03.2020


### REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		6.50 to 8.50	6.79	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr	500.00	40	APHA 22 <sup>nd</sup> Edition-2540 C
3	Turbidity	NTU	1.00	0.28	APHA 22 <sup>nd</sup> Edition-2130 B
4	Alkalinity	Mg/ltr	200.00	10.0	IS:3025, (part-23) 2014
5	Acidity	Mg/ltr		6.0	IS:3025, (part-22) 2014
6	Total hardness (as CaCO <sub>3</sub> )	Mg/ltr	300.00	18.0	IS:3025, (part-21) 2014
7	Calcium (as CaCO <sub>3</sub> )	Mg/ltr	75.00	12.0	IS:3025, (part-40) 2014
8	Magnesium (as CaCO <sub>3</sub> )	Mg/ltr	30.00	6.0	APHA 22 <sup>nd</sup> Edition -3500mg B
9	Chloride	Mg/ltr	250.00	9.0	IS:3025, (part-32) 2014
10	Sulphate	Mg/ltr	200.00	2.28	APHA 22 <sup>nd</sup> Edition-4500 So <sub>4</sub> 2
11	Residual free chlorine	Mg/ltr	0.20	<0.10	IS:3025, (part-26) 2014
12	Iron	Mg/ltr	0.30	0.12	IS:3025, (part-53) 2014
13	Nitrate	Mg/ltr	45.00	0.13	IS:3025, (part-39) 2014
14	Nitrite	Mg/ltr		< 0.05	APHA 22 <sup>nd</sup> Edition-4500No <sub>2</sub> B
15	Silica	Mg/ltr		<0.05	IS:3025, (part-35) 2014
16	Temperature	°C		22.2	IS:3025, (part-9) 2006

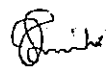
**\*\* IS: 10500(2012): Drinking Water Specification**

### 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 submitted by the client.
3. This report shall will be reproduced expect in full and without the written permission of environmental laboratory, CPP, UML, Ranchi.

  
TESTED BY  
(Manish Kumar)

  
CHECKED 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 DRINKING WATER

### Sample Details

### Client Details

Date & Time of Sampling : 08.03.2020 & 5:35 PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : MAR/DW/ CPP/09	Client Address : Tatisilwai, Ranchi
Type of Sample : DRINKING WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Anil Kumar Pradhan	Date of Receipt of Sample : 08.03.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 09.03.2020
Testing Condition : 23.8°C , 55%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540420000000399F	Date of Report : 23.03.2020

### 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/ltr	1.00	0.018
5	Manganese	Mg/ltr	0.10	0.088
6	Mercury	Mg/ltr	0.001	<0.0005
7	Lead	Mg/ltr	0.01	<0.005
8	Zinc	Mg/ltr	5.00	<0.400

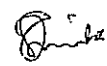
**\*\* IS: 10500(2012): Drinking Water Specification**

#### 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 submitted by the client.
3. This report shall will be reproduced expect in full and without the written permission of environmental laboratory, CPP, UML, Ranchi.

  
TESTED BY  
(Manish Kumar)

  
CHECKED 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 AMBIENT AIR MONITORING

### Sample Details

### Client Details

Date & Time of Sampling	: 13.03.2020 & 03:50 PM	Client Name	: Usha Martin Limited (CPP Div)
Sample ID	: CPP/ENV/MAR/MG/16	Client Address	: Tatisilwai, Ranchi
Type of Sample	: Ambient Air	Client Code	: UML/ CPP/03
Duration of Sampling	: 24 hrs	State	: Jharkhand
Sample Drawn by	: Mr Suraj Kumar	Date of Receipt of Sample	: 14.03.2020
Sample Plan Reference	: UML/DOC/110	Date of testing	: 14.03.2020
Testing Condition	: 23.2°C, 60%RS	Test Performed	: At Permanent Lab
UNIQUE LAB REPORT NO	: TC540420000000418F	Date of Report	: 23.03.2020


### REPORT


Sl.No.	Sample Location	Parameter	Unit	Desirable limit *	Results	Test Method
1	MAIN GATE	Particulate Matter PM2.5	$\mu\text{g}/\text{M}^3$	$\leq 60.00$	54.99	SOP/UML/WT/02 Based on CPCB guideline Vol-I : 2012
2		Respirable Particulate Matter PM10	$\mu\text{g}/\text{M}^3$	$\leq 100.00$	72.06	IS:5182 (PT - 23) : 2006
3		Sulphur Dioxide	$\mu\text{g}/\text{M}^3$	$\leq 80.00$	<10.00	IS:5182 (PT - 2) : 1999 Reaffirmed 2001
4		Nitrogen Dioxide	$\mu\text{g}/\text{M}^3$	$\leq 80.00$	11.48	IS:5182 (PT - 6) : 2006


\* Norms: National Ambient Air Quality Standards as per CPCB vide notification dated 18<sup>th</sup> 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 be reproduced except in full and without the written permission of environmental laboratory, CPP, UML, Ranchi

  
TESTED BY  
(Manish Kumar)

  
CHECKED BY  
(Tanmay Roy)

  
AUTHORISED BY  
(Tanmoy Sinha)

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



# usha martin



TC - 5404

UML/F/27 (AA)

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 AMBIENT AIR MONITORING

### Sample Details

### Client Details

Date & Time of Sampling	: 14.03.2020 & 02:10 PM	Client Name	: Usha Martin Limited (CPP Div)
Sample ID	: CPP/ENV/MAR/MTG/17	Client Address	: Tatisilwai, Ranchi
Type of Sample	: Ambient Air	Client Code	: UML/ CPP/03
Duration of Sampling	: 24 hrs	State	: Jharkhand
Sample Drawn by	: Mr Suraj Kumar	Date of Receipt of Sample	: 15.03.2020
Sample Plan Reference	: UML/DOC/110	Date of testing	: 15.03.2020
Testing Condition	: 23.2°C, 58%RS	Test Performed	: At Permanent Lab
UNIQUE LAB REPORT NO	: TC540420000000419F	Date of Report	: 23.03.2020

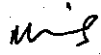
### REPORT


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	48.05	SOP/UML/WT/02 Based on CPCB guideline Vol-I : 2012
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	69.74	IS:5182 (PT – 23) : 2006
3		Sulphur Dioxide	µg/M <sup>3</sup>	≤80.00	<10.00	IS:5182 (PT – 2) : 1999 Reaffirmed 2001
4		Nitrogen Dioxide	µg/M <sup>3</sup>	≤80.00	<10.00	IS:5182 (PT – 6) : 2006


\* Norms: National Ambient Air Quality Standards as per CPCB vide notification dated 18<sup>th</sup> 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 be reproduced except in full and without the written permission of environmental laboratory, CPP, UML, Ranchi

  
TESTED BY  
(Manish Kumar)

  
CHECKED BY  
(Tanmay Roy)

  
AUTHORISED BY  
(Tanmoy Sinha)

CPP (2) - RW1  
USHAMARTIN LTD.  
TATISILWAI, 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 AMBIENT AIR MONITORING

### Sample Details

### Client Details

Date & Time of Sampling	: 15.03.2020 & 02:45 PM	Client Name	: Usha Martin Limited (CPP Div)
Sample ID	: CPP/ENV/MAR/SLF/18	Client Address	: Tatisilwai, Ranchi
Type of Sample	: Ambient Air	Client Code	: UML/ CPP/03
Duration of Sampling	: 24 hrs	State	: Jharkhand
Sample Drawn by	: Mr.Suraj Kumar	Date of Receipt of Sample	: 16.03.2020
Sample Plan Reference	: UML/DOC/110	Date of testing	: 16.03.2020
Testing Condition	: 24.5°C, 59%RS	Test Performed	: At Permanent Lab
UNIQUE LAB REPORT NO	: TC54042000000420F	Date of Report	: 23.03.2020

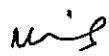
### REPORT


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	43.39	SOP/UML/WT/02 Based on CPCB guideline Vol-I : 2012
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	77.58	IS:5182 (PT – 23) : 2006
3		Sulphur Dioxide	µg/M <sup>3</sup>	≤80.00	<10.00	IS:5182 (PT – 2) : 1999 Reaffirmed 2001
4		Nitrogen Dioxide	µg/M <sup>3</sup>	≤80.00	<10.00	IS:5182 (PT – 6) : 2006


\* Norms: National Ambient Air Quality Standards as per CPCB vide notification dated 18<sup>th</sup> 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 be reproduced except in full and without the written permission of environmental laboratory, CPP, UML, Ranchi

  
TESTED BY  
(Manish Kumar)

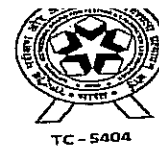
  
CHECKED BY  
(Tanmay Roy)

  
AUTHORISED BY  
(Tanmoy Sinha)

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



# usha martin



TC-5404

UML/F/27 (AA)

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 AMBIENT AIR MONITORING

### Sample Details

### Client Details

Date & Time of Sampling	: 16.03.2020 & 02:10 PM	Client Name	: Usha Martin Limited (CPP Div)
Sample ID	: CPP/ENV/MAR/WTP/19	Client Address	: Tatisilwai, Ranchi
Type of Sample	: Ambient Air	Client Code	: UML/ CPP/03
Duration of Sampling	: 24 hrs	State	: Jharkhand
Sample Drawn by	: Mr. Suraj Kumar	Date of Receipt of Sample	: 17.03.2020
Sample Plan Reference	: UML/DOC/110	Date of testing	: 17.03.2020
Testing Condition	: 24.5°C, 59%RS	Test Performed	: At Permanent Lab
UNIQUE LAB REPORT NO	: TC54042000000421F	Date of Report	: 23.03.2020

### 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	46.03	SOP/UML/WT/02 Based on CPCB guideline Vol-I : 2012
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	66.72	IS:5182 (PT - 23) : 2006
3		Sulphur Dioxide	µg/M <sup>3</sup>	≤80.00	<10.00	IS:5182 (PT - 2) : 1999 Reaffirmed 2001
4		Nitrogen Dioxide	µg/M <sup>3</sup>	≤80.00	<10.00	IS:5182 (PT - 6) : 2006

\* Norms: National Ambient Air Quality Standards as per CPCB vide notification dated 18<sup>th</sup> 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 be reproduced except in full and without the written permission of environmental laboratory, CPP, UML, Ranchi

*Manish*  
TESTED BY  
(Manish Kumar)

*Tanmay Roy*  
CHECKED BY  
(Tanmay Roy)

*Tanmoy Sinha*  
AUTHORISED BY  
(Tanmoy Sinha)

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



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

ANNEX 3

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



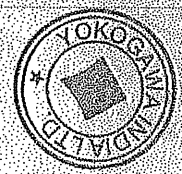
## MINUTES OF MEETING

**vigilantplant:**

CUSTOMER	USHA MARTIN LTD.																				
MEETING LOCATION	CPP, TATISILWAI, 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																			
YOKOGAWA		YOKOGAWA																			
Mr. M.S. Mandal		Mr. Dhirender Dagar																			
Mr. V. Kumar		(Yokogawa India Ltd)																			
		MOB.-9996952300																			
SL.NO	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" style="width: 100%; margin-top: 5px;"> <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_TSS</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_TSS	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_TSS	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																			

*M.S. Mandal*  
*V. Kumar*

*Dhirender Dagar*



*[Handwritten Signature]*



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 PP/30059/13-14 dated 4/9/2013

To whomsoever it concerns

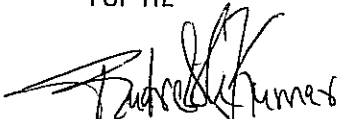
With reference to the above mentioned purchase order, we would like to inform that M/s Yokogawa India Ltd. has successfully completed supply ,supervision, erection and commissioning of emission data connectivity to JSPCB for their verification and evaluation. Pls refer to the Minutes Of Meeting signed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

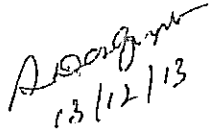

❖ CUSTOMER NAME	❖ M/s Ushamatin ltd		
❖ MEETING LOCATION	❖ Power-Plant- Ranchi		
❖ PURPOSE OF MEETING	❖ Connectivity to JPCB		
❖ MEETING DATE	13-12-2013	❖ SERVICE REQUEST NO	KOL/13/A/CA/31354
❖ P.O. No	20152	❖ P.O. DATE	06/09/2013
❖ 1 <sup>st</sup> VISIT START FROM	14-11-2013	❖ 1 <sup>st</sup> VISIT 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't 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 Envilroment..	
6.	Engineer of YIL left the site on 13/12/2013	

 13/12/13	 13/12/13
M/s UML	M/s YIL

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

"Abhyantran Bhawan", Kutchery 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*  
24.11.11  
D. Banerjee  
(Deputy Director)  
Ground Water Directorate, Ranchi.

Yours sincerely,  
*[Signature]*  
24/11/2011  
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,  
"Abhyantran Bhawan", Kutchery Chowk,  
Ranchi - 834 001

Kind Attn. of : Mr. SLS Jageshwar

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,

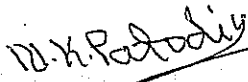
Further to our above letter (ref. No. UML/ CPP/EMS/GWD/RWH/12/01 dtd. 03/05/2012), we would like to place following facts before your good self for kind information :

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)

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 PROGRAMME  
Certified as an approved  
Manufacturer by  
American Bureau of Shipping



2x10 mw Captive Power Plant  
Usha Martin Limited  
Tatisilwai, Ranchi

## FLY ASH GENERATION & UTILISATION REPORT

2019-20

MONTH	QTY ASH GENERATED (MT)	QTY UTILIZED (MT)			UNUTILIZED (MT)	UTILIZATION % *	Balance fly ash in Dyke
		UTILIZED IN FLY ASH BRICK PLANT	3RD PARTY UTILIZATION	TOTAL (MT)			
<b>Opening Balance</b>							<b>1401.20</b>
APRIL'19	5873.61	1057.03	4807.78	5864.81	8.80	99.85	1410.00
MAY '19	6353.76	1044.56	5932.32	6976.88	-623.12	109.81	786.88
JUNE'19	6819.63	1003.35	5864.49	6867.84	-48.21	100.71	738.67
JULY' 19	7750.70	385.75	5494.43	5880.18	1870.52	75.87	2609.19
AUG' 19	5403.86	0.00	4348.61	4348.61	1055.25	80.47	3664.44
SEPT' 19	5849.89	122.61	5663.35	5785.96	63.93	98.91	3728.37
OCT' 19	5453.05	595.20	4919.61	5514.81	-61.76	101.13	3666.61
NOV' 19	6528.39	815.52	6452.48	7268.00	-739.61	111.33	2927.00
DEC' 19	6262.07	705.74	5579.98	6285.72	-23.65	100.38	2903.35
JAN' 20	5561.49	732.03	4513.64	5245.67	315.82	94.32	3219.17
FEB' 20	7352.26	942.83	6751.83	7694.66	-342.40	104.66	2876.77
MAR' 20	3007.89	469.41	2402.76	2872.17	135.72	95.49	3012.49
<b>2019-20</b>	<b>72216.60</b>	<b>7874.03</b>	<b>62731.28</b>	<b>70605.31</b>	<b>1611.29</b>	<b>97.77</b>	<b>3012.49</b>

## Captive Power Plant(CPP) - Existing Plant Description

Sl.No.	Name of Plant	No. of Plants						Total
		Till 2014*	2015-16 ##	2016-17##	2017-18 ##	2018-19##	2019-20**	
1	Eucalyptus							
2	Babool							
3	Gamhar							
4	Pipal							
5	Acacia							
6	Sissoo							
7	Jamun							
8	Neem							
9	Bakain							
10	Forest plant							
11	Babool							
12	Mango							
13	Guava							
14	Litchi							
15	Amaltas							
16	Moringa	654	1668	1155	1762	1400	1903	7942
17	kadam							
18	Alstonia							
19	Peltofarm							
20	gulmohar							
21	jakranda							
22	melia dubia							
23	karanj							
24	Ashok							
25	papaya							
26	lemon							
27	chikoo							
28	jackfruit							
29	Ber							
30	Pomegrannate							
* Existing Plants		## Plantation done			**Tree planting plan			

### Requirement

•Plantation Area to be = 7.85 Acre i.e 3.177 Ha ,No of Plants to be = 7942@2500 plant/Ha

Completed:7239 Plants

Remaining Plantation to be raised in FY 20-21 =1903



## Overview

The project area of UML-CSR, Ranchi is operational in 29 villages in and around the Captive Power Plant and covering three Blocks of Ranchi District Namely Namkum, Angara and Kanke. Usha Martin Ltd. Company's CSR (Corporate Social Responsibility) is based on Total Village Management (TVM), which are multi-pronged activities interlinked with the values of ownership, transparency and improvement at every level. TVM's 8 pillars together hold up the idea of achieving integrated, equitable and sustainable development through public-private-peoples' partnerships or P4. The 8 pillars represent fields of work that are both separate and interlinked, converging into an integrated workable model. They are:

1. Natural Resource Management
2. Health Hygiene & Sanitation
3. Education
4. Capacity Building
5. Livelihood
6. Renewable Energy
7. Resource Mobilization
8. Women Empowerment
9. Infrastructure



### Natural Resource Management Activities:

- For promotion of organic farming we have promoted **NADEP compost (23) & Compost pit (110), Low cost vermi compost (21) for organic manure, Fish tonic** , an organic way for pest control. We have also promoted **Azola pit** to add nutrient value in cattle feed.
- As an ongoing activity we are also repairing the existing Hand Pumps in the 29 villages and creating water user groups. For this we have trained twenty persons (**20**) from the village itself, as a result generating employment for them also. These mechanics have been

provided certificates from KGVK and as and when demand comes the Mukhiya's also call them and provide assignments.



- **We (Usha Martin) have repaired forty eight (48) hand pump** for better access to **safe drinking water.**

- **SWI (Systematic Wheat Intensification) plantation** has been the major Achievement in UML- CSR Area. We had done Wheat

cultivation, in 2019-20 and we provided seeds to **50** New SWI farmers.

- **We have Linked 339 Household cum farmers with multi cropping scheme** and supported farmers through awareness, techniques and close monitoring of the whole process. We have also incorporated the Govt. Scheme in the villages
- SHG / Kisan Groups have been provided the paddy Treasures as well as weeding machine for making paddy cultivation and weeding easy.
- Motivation to the beneficiaries and coordination with govt. officials has augmented the number of crops insurance in the villages. **02 training were conducted to aware for soil test.**
- Irrigation has been a serious problem for farmers and due to this reason; they were reluctant to do cultivation in summer season.



Thus, Usha Martin has initiated the construction of 59 new Low lands well in the periphery of factory, which we aim to cover additional 120 Acres of land for Rabi / Paddy crop cultivation.

- Six (06) Jal miner are being constructed in the Haratu, Silwai, Ara, Hesal and Hahey village



for more than 300 households.

- Crop Insurance is required for rainy day thus, we encouraged farmers for crop insurance to have compensation if any adversity

happen to crop.

## Health

- During this six month period we have done **18 medical camps** comprised of Eye test, General Health camp as well as Homeopathy treatment for the villagers. Such camp were held in Tati East, Haratu, Silwai, Chatra, Mahilong Baram, Angara] Hahey and others villages. when required for further treatment, patients were sent to Shalini Hospital for better treatment and counseling without any cost.



- **Fifty Nine (59) Adolescent girl's group** meeting has been conducted in 16 villages and make them aware about personal hygiene, communicable diseases, Anemia etc. **Hemoglobin Test** of adolescent girls has been done in villages to check the level and to make them aware about the curative measures.



- **Home Visit** has regularly being done for awareness about Anti Natal Checkup, Post Natal Checkup, Immunization etc. with the ladies who were present in Health due list of Sahiya. And we have supported 83 immunization program through logistic as well as technically.
- We have **organized only eight (08) school health session in government schools**. The children are made aware about personal hygiene, hand washing techniques, prevention from different diseases etc.
- Awareness drive about **CORONA-19** have initiated in haratu, Ara, Chatra, Hesal, Angara, Silwai villages to address the issue among community.
- As under Swatch Bharat Abhiyaan Toilet construction is going on in all CSR villages
- We have conducted many sanitation awareness sessions in villages to make people aware about the ill effects of open defecation and also tried bring them out of old habits and also



tried to develop self-respect.

- Water is the main source for every good health. Through CSR, Safe drinking water training were conducted in the villages. All **Twenty (22) training** were conducted.
- **Total Forty Five (45)** village Health committee meeting were attended and given suggested.

### **Training and Capacity Building Activities:**



- In the villages **Ninety (90) Gram Shabha** were attended and given proper suggestion for effective meeting and thereafter activities. farmers were made aware about the organic way of farming. We have made farmers aware about NADEP compost, Compost Pit, Low Cost Vermi Compost, Fish Tonic, PANCHGAVYA, Inter Cropping, Mix Cropping, Relay Cropping etc.
- **Village level meetings of VHC, VEC, and SHG** was regularly organized in **29 villages. Regular Quality circle meeting** are being held in all villages on problems like Water Logging, Alcoholism, Sanitation, Unsafe drinking water, Income generation alternatives, Illiteracy, Open defecation etc. The QCs are also been audited by Experts of Usha Martin Ltd.
- Since our stakeholders depends upon agriculture for their livelihood and income generation. Thus our focus were to train themselves about modern/ scientific way of harvesting. We have coordinated with Birsa Agriculture University (BAU) and RamKrishan Mission for imparting new idea and technology so far agriculture area is concerned. Total Seventeen (17) training were conducted during this six months period
- Integrated training trough Ramkrishan Mission were done – 11 Nos. Birsa Agriculture University (BAU) training- 05 Nos.
- Mushroom Cultivating Training- 50 Nos.
- Soil Test training- 04 nos.
- Fishery training - 07 nos.
- Agriculture and Horticulture training-22 Nos.



## Educational Activities:



- Usha Martin through its CSR initiative has been looking after one Gurukul School, which is situated at nearby factory. We take care of poor children and those who are unable to give fee.

- Remedial School are

running in Chatra, Silwaii and Anrag School. Approx 250 children's are being benefitted by this activity and with this additional support are doing well in class.

- **Adult literacy campaigns** have been organized in 05 villages in which around 35 women have learned to read and write, identify letters etc.
- **Edutainment classes** by the education team are been organized in Government schools of Ara, Mahilong and Khatanga.
- **Sanitation Program in school** has been conducted in the Baram, Ara, Mahilong, Tati, Silwai schools for awareness of hygiene, general health issues and others problems.
- **Twenty eight (28) village Education committee** meeting held for general discussion of the upliftment of school infrastructure and quality of education
- Computer Education are going on in two villages namely Angara and Baram.
- CSR team has been looking after the issue related to quality education and doing programs like speech, debate, slogan writing and other awareness program in the school.
- Medical camp has been held in the school for general awareness upon eye, sanitation, seasonal diseases and keeping healthy.



## Livelihood Generation Activities:



One of the prime objectives of CSR's activity is to improve the capacity building of the communities. Through livelihood generation. Thus we have initiated the SRI (Systematic Rice Intensification) method of cultivation among the farmers community. Now the target is to encourage them to adopt a second Crop, and exploring various off-

farm income avenues like mushroom, duckery, Backyard poultry, piggery, and fishery

### Few activities based of livelihood Generation:

- Mushroom Cultivation are with 135 SHGs / women groups
- Kitchen Garden with 272 Household for nutritious vegetable / fruits.
- Fishery with 40 groups of farmers. Not new in this six month.
- Social Forestry in 24 persons/ groups
- Artificial insemination of 28 Cattle belong to cow/ buffalo
- Deep Irrigation-04
- Goatry training with 30 Household
- Jal Miners with Solar Energy - 06 Nos.
- Certificate to Mushroom trained people- 25 Nos



- Animal Health Camp has been organized through Govts. Support.
- Social Forestry were promoted amongst villagers.
- Seeds of cash crops like groundnut, Mung and Chana were distributed.

## **Women Empowerment:**

- As Govt. has started the drive for Laxmi ladli Yojana, Atal Pension Yojana, PMBSY, PMJJY we have conducted several rounds of meeting in villages to motivate farmers for towards opening their account in these schemes so to make them financially strong. These are :
- Samsaya Samadhan Samooh meeting --- 13Nos.
- SHG meeting-----62 Nos.
- Training on SRI----- 09 Nos.
- Village Health Committee meeting ----- 45 Nos.
- We have also participated in SHG meeting and briefed about our TVM model and also livelihood enhancement program like mushroom cultivation, poultry, piggery, fishery, duckery etc. Before implementation of our activities we discuss in SHG meeting to do need analysis and also to check acceptance level of our activities which are going to implement. We also discuss about the govt. schemes running currently and also about the new schemes which govt. launches for their betterment.

### **Some Govt. Scheme, which linked / Coordinated with CSR Villagers/ Communities**

- Health Card----- 20 No/ Families
- Ujjawal Gas-----10 Families
- Old Age Pension -----59 Families
- Widow Pension -----27 Families
- Handicapped Pension's pension----- 11 Nos.
- Red Ration Card-----12 Households
- Exposure Visit of Farmers ----- 15 Nos.
- Toilet Construction ----- 67 Families
- Soil Test Training-----04 Nos

**Photo Gallery:**

**Figure- 1: Systematic Wheat Intensification (SWI) in the field of Joseph Toppo of Mahilong**



**Figure- 2: BPO training at Mahilong**



**Figure- 3: Skill Training**



**Figure- 4: Mushroom Seeds distribution by Sh. LKJ to stakeholders**



**Figure- 5: Certificate to farmers those trained by fishery Department**



**Figure-6: Adolescent girls meeting at Baram**



Figure-1: Paper Clipping

# स्वनिर्भरता में मछली पालन की अहम भूमिका

- उषा मार्टिन की ओर से सात ग्रामीणों को मछली जीरा बांटा गया
- सीएसआर के तहत हो रहे कार्यों की ली गयी जानकारी

संवाददाता ▶ रांची

उषा मार्टिन के एचआर हेड डीजे बसु ने कारखाने के इंद-गिर्द के गांवों में जाकर लोगों से कॉर्पोरेट सोशल रिस्पॉन्सिबिलिटी के तहत किये जा रहे कार्यों की जानकारी ली. उन्होंने चतरा, सिलवई और अनगड़ा गांव में स्वयं सहायता समूह एवं मछली पालन करनेवाले ग्रामीणों से बातचीत की. विभिन्न गांवों से आये सात ग्रामीणों को श्री बसु ने मछली जीरा का पैकेट दिया. मत्स्य विभाग के सहयोग से प्राप्त प्रत्येक पैकेट में मछली का 800



उषा मार्टिन के अधिकारी मछली जीरा का वितरण करते हुए.

जीरा दिया गया. इस अवसर पर श्री बसु ने कहा कि मछली पालन रोजगार का एक अहम जरिया है. इसके माध्यम से किसानों को पौष्टिक आहार तो मिलता ही है, दूसरी ओर स्वरोजगार का भी विकल्प मुहैया होता है. जिससे किसान आत्मनिर्भरता हासिल करते हुए आसानी से आर्थिक रूप से भी मजबूत हो सकते हैं. उन्होंने कहा कि

कंपनी सीएसआर के तहत विभिन्न माध्यमों से ग्रामीणों के विकास और उनकी समस्याओं को दूर करने का प्रयास कर रही है. इस अवसर पर होरहाप के संजय मुंडा, अशोक मुंडा व दिनेश मुंडा, महलौंग के अनिल कच्छप तथा अनगड़ा के दिनेश्वर महतो, ललेश्वर महतो व कृष्णा महतो को मछली जीरा दिया गया. उषा मार्टिन

## मेगा मेडिकल कैंप लगाया गया

रांची. सीएसआर के तहत उषा मार्टिन ने शालिनी अस्पताल और अभी होमियो क्लिनिक के सहयोग से चतरा गांव में मेगा मेडिकल कैंप लगाया. इसमें डॉ राजीव एवं डॉ मोना सिंह के अलावा डॉ आरएन सिंह ने 118 ग्रामीणों का इलाज किया और उचित परामर्श दिया. अभी होमियो के माध्यम से मरीजों को निशुल्क दवा का भी वितरण किया गया. कैंप का आयोजन को-ऑर्डिनेटर रवि राउत और मोनीत भूत कुमार ने किया.

के सीएसआर के तहत 45 किसानों को मछली पालन से जोड़ा जा चुका है. जिससे उनका विकास हो रहा है. इस अवसर पर सीएसआर के हेड डॉ मयंक मुरारी, सुपरवाइजर भुवनेश्वर महतो, रौशन लिंडा एवं लालदेव महतो व अन्य उपस्थित थे.

प्रभात खबर Sun, 06 October 2019  
<https://epaper.prabhatkhabar.com/c/44389080>



Figure-2: Paper Clipping

## पहल • उषा मार्टिन के सीएसआर से जुड़कर अपनी जिंदगी बदल रहे हैं ग्रामीण

# जैविक सब्जी की खेती कर आत्मनिर्भर बन रही महिलाएं

प्रमुख संवाददाता ▶ रांची

टाटीसिलवे के इंद-गिर्द के गांवों में पहले किसान धान के अलावा और किसी चीज की खेती से परहेज करते थे. आज इन क्षेत्र की महिलाएं सब्जी उत्पादन को रोजगार से जोड़कर आत्मनिर्भर बन रही हैं. घर की जरूरत को पूरा करने के बाद इसे बाजार में बेचती हैं और बाजार की जरूरत के हिसाब से सब्जी लगाती हैं. सब्जी की जैविक खेती से मासु गांव की महिलाएं आत्मनिर्भर बन रही हैं.

गांव की ऐसी ही एक महिला है रासो देवी. उनको खेती का अनुभव नहीं था. उषा मार्टिन सीएसआर से जुड़ने के बाद उनके खेत में कंपनी की ओर से एक

कुआं खोदवाया गया. इसके बाद उसने परिवार के सहयोग से दो कुआं और खुदवाया. उषा मार्टिन में आयोजित कार्यशाला में उनको सब्जी उत्पादन तकनीकी का ज्ञान दिया गया. इसके बाद रासो देवी ने पिछले साल 50 डिसेंमिल में खेती शुरू की. रासो देवी बताती हैं कि पिछले साल सारा खीरा बर्बाद हो गया. लगा कि कुछ नहीं हो सकता है. शुरू में लागत और बचत में अंतर भी नहीं था. उषा मार्टिन के सुपरवाइजर मोनीत ब्रूतकुमार द्वारा उनका लगातार तकनीकी सहयोग दिया गया. इसके बाद रासो पूरे आत्मविश्वास के साथ दो एकड़ जमीन पर सब्जी का उत्पादन शुरू कीं. सिंचाई के समुचित उपयोग के लिए उषा मार्टिन से मोटर की भी व्यवस्था करायी



गयी. बाद में उसने खेत में दो और बोरिंग करायी. इसके बाद इस साल अपनी जमीन पर खीरा, फ्रेंचबीन की खेती की.

अभी तक रासो देवी ने 200 किलो फ्रेंचबीन, 125 किलो खीरा की बिक्री की है. खीरा और फ्रेंचबीन बेचकर वह

15 हजार से ज्यादा कमा चुकी है. इसके अलावा मूली और टमाटर में एक हजार से ज्यादा का बेच चुकी है.

## रासो से प्रेरित होकर परंपरागत छोड़ वैकल्पिक खेती अपना रहे हैं ग्रामीण

अपनी मेहनत और फसल को देखकर रासो में उत्साह और आत्मविश्वास जगा है. परिणाम यह हुआ है कि गांव के अन्य परिवार भी परंपरागत खेती से वैकल्पिक खेती की ओर बढ़ रहे हैं. इसके लिए उषा मार्टिन से गांव के कई लोग अनीता देवी, सरिता देवी, मंदरा मुंडा तथा तेजनाथ महतो के खेत में कुआ खुदवाया गया है. अब ये लोग भी सब्जी उत्पादन से अपने को जोड़ रहे हैं. इसी गांव के प्रेम महतो, धनराज महतो, अमृत महतो के परिवार सब्जी की खेत करने लगे हैं. रासो देवी कहती हैं कि सही मार्गदर्शन एवं सहयोग के बाद खेत में फसल को देखना अच्छा लगता है. अब खुद खेती करके परिवार को खिला रहे हैं और पैसा भी कमा रहे हैं.

प्रभात खबर Wed, 23 October 2019  
<https://epaper.prabhatkhabar.com/c/44971576>



## चर्चा. उषा मार्टिन के निदेशक बृजकिशोर झंवर ने कहा ज्ञान और तकनीक के तालमेल से ही विकास

संवाददाता रांची

गांवों के विकास में छोटी-छोटी पहल की अहम भूमिका है. ज्ञान और तकनीकी के साथ तालमेल कर प्रयास को आगे बढ़ाया जाये तो गांवों का सर्वांगीण विकास संभव हो सकेगा. यह बात उषा मार्टिन के निदेशक बृजकिशोर झंवर ने कही. वह बुधवार को उषा मार्टिन के ग्रामीण विकास विभाग की ओर से आयोजित कार्यक्रम में शामिल विभिन्न गांवों के किसानों, स्वयं सहायता समूह के सदस्यों को संबोधित कर रहे थे. इस दौरान महिलाओं के अनुभव, गांव के स्तर पर हो रहे बदलाव और भविष्य की जरूरतों पर जानकारी प्राप्त की.

श्री झंवर ने कहा कि गांव की प्रगति के लिए खेतीबारी, स्वास्थ्य और शिक्षा के साथ आजीविका पर एकीकृत पहल की जरूरत है. उषा मार्टिन अपने स्कूल और अस्पताल के माध्यम से गांवों की प्रगति में लगा है. सीएसआर के तहत महिलाओं को प्रशिक्षण दिलवा कर सशक्त बनाया जा रहा है. उन्होंने कहा कि गांव की प्रगति के लिए जरूरी है कि किसान



ग्रामीणों से मिलते उषा मार्टिन के निदेशक बृजकिशोर झंवर.

नयी तकनीक का उपयोग करें.

इस दौरान ग्रामीणों ने चर्चा के दौरान गांव के विकास के बारे में बताया. चतरा गांव के दिलीप महतो ने बताया कि एक एकड़ पर उसने वैकल्पिक खेती के तौर पर केला का उत्पादन शुरू किया है और अभी तक 75 हजार का केला बेच चुका है. टाटी गांव के प्रवीण महतो ने कहा कि शुरू में तरबूज की खेती पर गांव वाले हंसते थे. अब वही उसकी तकनीक को अपनाना चाहते हैं. वह डेढ़ लाख का तरबूज बेच चुका है.

### 10 समूहों के बीच बांटे गये मशरूम के बीज

उषा मार्टिन के ग्रामीण विकास के सौजन्य से कारखाने के इर्द-गिर्द में कार्यरत 10 स्वयंसहायता समूह के बीच मशरूम के बीज का वितरण किया गया. टाटी पूर्वी के प्रवीण महतो, सिलवई के नरेश महतो, श्रुति देवी, निशा देवी, रेणु देवी और दलसिंह मुंडा, मासु के मुल्लु महतो, अनगड़ा के देवनाथ महतो, विभा कुमारी और परीबा भोक्ता, महिलौंग के केदार महतो तथा चतरा के मुन्ना महतो को मशरूम का बीज दिया गया.

सिलवई के दलसिंह मुंडा ने बताया कि उषा मार्टिन के सहयोग से वह मछली पालन कर रहा है. इस साल 60 हजार रुपये की मछली बेच चुका है. हरातू की सविता देवी ने श्री विधि से धान की खेती, चतरा की श्रुति देवी ने बकरी पालन में बदलाव के बारे में जानकारी दी. इस दौरान महिलौंग, आरा, चतरा, मासु, हेसल, अनगड़ा, टाटी तथा अन्य गांव के लोग मौजूद थे.

Figure-04: Paper Clipping

## उषा मार्टिन ने ग्रामीणों को बटन मशरूम बनाने का प्रशिक्षण दिया

○ आमदनी का अहम जरिया है बटन मशरूम : विवेक

रांची. गांवों में रोजगार के वैकल्पिक माध्यम को अपनाकर ही आमदनी बढ़ायी जा सकती है. इस दिशा में मशरूम का उत्पादन एक बेहतर तरीका है. ये बातें उषा मार्टिन के एचआर हेड विवेक कृष्ण ने कहीं. वह कॉर्पोरेट सोशल रिस्पॉन्सिबिलिटी के तहत कारखाना परिसर में बटन मशरूम पर आयोजित प्रशिक्षण में बोल रहे थे. इसमें उषा मार्टिन के ईद-गिर्द के गांवों की 50 से अधिक महिलाएं और स्वयं सहायता समूह के प्रतिनिधि शामिल थे.

विवेक कृष्ण ने कहा कि समाज जब सामूहिक रूप से एक-दूसरे के बारे में सोचता है, तो विकास का मार्ग प्रशस्त होता है. आमदनी के लिए हुनर में



बटन मशरूम पर आयोजित प्रशिक्षण कार्यक्रम में शामिल ग्रामीण.

गुणात्मक वृद्धि जरूरी है. सीएसआर के तहत गांव स्तर पर कौशल विकास के लगातार प्रयास किये जा रहे हैं. प्रशिक्षक सिलखा वेदिया ने बताया कि बटन मशरूम के एक पूरे चक्र में तीन महीने का समय लगता है. एक बैग में तीन-चार फसल ली जा सकती है. इसके लिए जाड़े का मौसम सबसे अनुकूल होता है. सीएसआर हेड डॉ मयंक मुरारी ने बताया कि बाजार में बटन मशरूम

की काफी मांग है. प्रशिक्षण के बाद इसका बेहतर तरीके से उत्पादन किया जा सकता है. लागत भी कम आती है. उन्होंने कहा कि यह पोषण की जरूरत को पूरा करता है. इसको बाजार में आसानी से बेचा भी जा सकता है. मंच संचालन सचींद्र कुमार ने किया. मौके पर सीएसआर प्रतिनिधि सुनीता देवी, मोनीत बृतकुमार और भुवनेश्वर महतो आदि उपस्थित थे.

प्रभात खबर

Sun, 17 November 2019

<https://epaper.prabhatkhabar.com/c/45830814>



Figure-05: Paper Clipping

## ऊषा मार्टिन के मेगा मेडिकल कैंप में 105 मरीज की हुई जांच, डॉ राजीव ने कहा होमियोपैथी सस्ता व कारगर पद्धति

लाइफ रिपोर्टर @ रांची

अभी होमियो क्लिनिक के निदेशक व होमियोपैथिक चिकित्सक डॉ राजीव कुमार ने कहा कि होमियोपैथी सस्ता व कारगर इलाज की पद्धति है. इसमें लाइलाज बीमारी का इलाज भी संभव है. यह रोगी के नर्वस सिस्टम पर काम करता है, जिससे बीमारी जड़ से खत्म हो जाती है. वह शनिवार को ऊषा मार्टिन के सीएसआर कार्यक्रम के तहत अभी होमियो क्लिनिक के सहयोग से महिलांग की बड़ाम पंचायत में आयोजित मेगा मेडिकल कैंप में बोल रहे थे. उन्होंने कहा कि अब होमियोपैथी पद्धति से इलाज करानेवाले लोगों की संख्या बढ़ गयी है. डॉ मोना सिंह ने महिलाओं को होमियोपैथी दवा के माध्यम से खुद को स्वस्थ रखने के बारे में बताया. बड़ाम पंचायत के उप मुखिया राजेश टोप्पो ने कहा कि ऊषा मार्टिन द्वारा सीएसआर कार्यक्रम से ग्रामीण लाभान्वित हो रहे हैं. उल्लेखित मध्य विद्यालय की प्राचार्या मीरा लिंडा ने कहा कि बहुत से ऐसे मरीज पैसा के अभाव में इलाज



स्वास्थ्य जांच करने के लिए लगी कतार.

नहीं करा पाते हैं, उनके लिए स्वास्थ्य शिविर वरदान है. स्वास्थ्य शिविर में 105 मरीजों की जांच की गयी. कार्यक्रम का संचालन अभी होमियो कॉन्डिटर रवि कुमार व ऊषा मार्टिन की रौशन लिंडा ने किया.

**नेत्र शिविर में 45 बच्चों का इलाज :** ऊषा मार्टिन व शालिनी अस्पताल के सौजन्य

से बड़ाम के जराटोला में नेत्र जांच शिविर लगाया गया. इसमें 45 बच्चों की आंखों की जांच की गयी. आंखों की सुरक्षा की समुचित जानकारी दी गयी. डॉ आरएन पांडेय ने बच्चों को गाजर व सब्जी खाने की सलाह दी. पांच बच्चों की आंखों में मोतियाबिंद की शिकायत पायी गयी.

प्रभात खबर

Sun, 08 December 2019

<https://epaper.prabhatkhabar.com/c/46632444>



Figure-06: Paper Clipping

## उषा मार्टिन मेगा मेडिकल कैंप में डॉ मोना सिंह ने कहा होमियोपैथी से भी गंभीर बीमारी का इलाज संभव

लाइफ रिपोर्टर @ रांची  
life.ranchi@prabhatkhabar.in

सीएसआर के तहत उषा मार्टिन द्वारा अभी होमियो क्लिनिक के सहयोग से अनगड़ा पंचायत के हाहे गांव में होमियोपैथी का मेगा मेडिकल कैंप लगाया गया. इसमें 104 ग्रामीणों का इलाज हुआ. सलाह भी दी गयी. अभी होमियो के माध्यम से मरीजों को निःशुल्क दवा का भी वितरण किया गया. डॉ मोना सिंह ने कहा कि होमियोपैथी में इलाज बीमारी का इलाज संभव है. इसका इलाज सस्ता और सहज है. इसलिए गांव में रोगियों को होमियोपैथी को अपनाना चाहिए. उन्होंने कहा कि यह रोगी के नर्वस सिस्टम पर काम करता है, ताकि बीमारी को जड़ से खत्म किया



अनगड़ा पंचायत के हाहे गांव में मेगा मेडिकल कैंप लगाया गया.

जा सके. डॉ राजीव क्लिनिक व उषा मार्टिन के माध्यम से नामकुम एवं अनगड़ा प्रखंड के सभी गांवों में ग्रामीणों को जागरूक किया जा रहा है.

**पशु चिकित्सा शिविर लगाया गया, मवेशियों का इलाज :** इधर, उषा मार्टिन द्वारा सीएसआर के तहत हाहे गांव में पशु चिकित्सा

शिविर लगाया गया. इस शिविर में मवेशियों को बीमारी से बचाने के बारे में जानकारी दी गयी. पारा चिकित्सक शनिचरवा मुंडा ने बकरियों को

### महिलाओं को दी सलाह

डॉ मोना सिंह ने महिलाओं को होमियोपैथी दवा के माध्यम से खुद को स्वस्थ रखने की सलाह दी. गांव के प्रधान विनोद पाहन, वार्ड सदस्य गणेश मिश्रा और आंगनवाड़ी सेविका सरिता देवी आदि ने उषा मार्टिन के इस प्रयास की सराहना की. कार्यक्रम का संचालन अभी होमियो कोऑर्डिनेटर रवि कुमार, उषा मार्टिन की सुनीता देवी ने किया. इस अवसर पर सैकड़ों ग्रामीणों को जागरूक भी किया गया.

डिवर्मिंग का इंजेक्शन भी दिया, ताकि उनको बीमारी से बचाया जा सके. शिविर में कुल 59 मवेशियों को दवा और इंजेक्शन दिया गया.

Tue, 26 November 2019  
प्रभात खबर  
https://epaper.prabhatkhabar.com/c/46178239



Figure-07: Paper Clipping

## कौशल विकास के प्रशिक्षण से रोजगार में होगी आसानी



कार्यशाला में योजनाओं की जानकारी देते हुए.

संवाददाता > रांची

उषा मार्टिन और झारखंड स्टेट एड्स कंट्रोल सोसाइटी तथा ड्रीम विवर के संयोजन से लापुंग गांव में कौशल विकास और सामान्य हेल्थ पर कार्यशाला आयोजित की गयी. झारखंड एड्स कंट्रोल सोसाइटी के उज्ज्वल ने आंगनवाड़ी केंद्रों की योजनाओं की जानकारी दी.

उन्होंने कहा कि टीवी के इलाज के लिए विशेष अस्पताल बनाये गये हैं, जहां निःशुल्क इलाज होता है. एड्स को लेकर फैली भ्रांतियों के बारे में भी बताया. ड्रीम विवर के शांति भूषण सिन्हा ने कहा सरकार कौशल विकास को लेकर विशेष

प्रशिक्षण दे रही है. प्रशिक्षण के दौरान ही गांव की युवतियों को अंग्रेजी एवं कंप्यूटर की बेसिक जानकारी दी जायेगी. इससे रोजगार में आसानी होगी तथा भविष्य में बेहतर करने का अवसर मिलेगा. सीएसआर के को-ऑर्डिनेटर भुवनेश्वर महतो ने कहा कि लोगों को सरकारी योजनाओं का समुचित लाभ मिल सके, इसके लिए मुखिया एवं पंचायत स्तर पर पहल करनी होगी. इसमें उषा मार्टिन की ओर से भी सहयोग किया जायेगा. इस अवसर पर सीएसआर के लालदेव महतो, गांव के समाजसेवी साईनाथ महतो, अममलाल महतो, लीलावती देवी, बालो देवी, पिकी कुमारी, रीता देवी आदि ने अनुभव बताये.

## उषा मार्टिन ने चलाया अभियान



**रांची.** उषा मार्टिन सीएसआर कार्यक्रम के तहत शुक्रवार को कोरोना वायरस जागरूकता कार्यक्रम का आयोजन किया. इसमें सुपरवाइजर ने गांव-गांव में घूम कर कोरोना वायरस से बचने के लिए जागरूक किया गया. महिला सुपरवाइजर मॉनित व सुनीता देवी ने चतरा, टाटी, सिलवड़, हरतु, उलातु, महिलौंग व आरा पंचायत में जनप्रतिनिधि, सहिया व आंगनवाड़ी सेविका के साथ महिलाओं व बुजुर्गों को वायरस से बचाव के बारे में बताया. यह भी बताया गया कि वर्तमान समय में समारोह व कार्यक्रम को टाल देना चाहिये. सरकार द्वारा जारी किये गये निर्देश व सलाह को ग्रामीणों से अवगत कराया गया. सीएसआर हेड डॉ मयंक मुरारी ने बताया कि आम लोगों को जागरूक कर संवेदनशील बनाने का यह अभियान जारी रहेगा.

### आपदा प्रबंधन विभाग ने दिये 50-50 लाख

नोबेल कोरोना वायरस से होने वाले संक्रमण को देखते हुए आपदा प्रबंधन विभाग ने सभी जिलों को 50-50 लाख रुपये की राशि मुहैया करायी है. यानी कुल 12 करोड़ रुपये 24 जिलों को दिया गया है.

पूर्व मध्य रेल  
Sat, 02 November 2019  
प्रभात खबर  
https://epaper.prabhatkhabar.com/c/46178239



पूर्व मध्य रेल  
Sat, 21 March 2020  
प्रभात खबर  
https://epaper.prabhatkhabar.com/c/46178239





# Citizens Foundation

(An NGO Regd. Under The Societies Registration Act XXI of 1860)

Ref. No. CF/Gen/2019-20/253

Date: 29.02.2020

To

Dr. Mayank Murari

DGM CSR and PR

Usha Martin Limited

Subject: Submission of Final Report of Social Audit of Usha Martin CSR initiatives for the  
Financial Year 2018-19

Dear Sir,

At the outset we would like to thank USHA MARTIN LTD. to provide us an opportunity to conduct Social Audit of their CSR initiatives. With reference to the assignment assigned to Citizens Foundation, we are hereby happy to submit the final report of Usha Martin CSR initiatives.

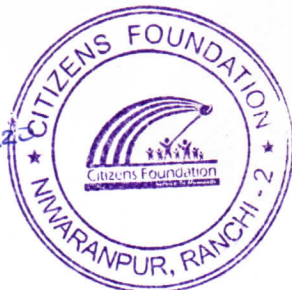
Kindly acknowledge our report and release our payment as soon as possible. For this, we shall be thankful to you.

Thank You.

With Regards,




  
Shyamal Herenz

Program Manager



H.O.: 7, Betar Kendra, Niwaranpur, Ranchi - 834002, Jharkhand (India)  
T: +91651-2481777 / 2482777  
E: mail@citizensfoundation.org  
W: www.citizensfoundation.org

Follow us on :

 [www.facebook.com/citizensfoundationindia](https://www.facebook.com/citizensfoundationindia)  
 <https://twitter.com/citizensfoundation>  
 <https://www.youtube.com/citizensfoundation>  
 <https://www.linkedin.com/company/citizens-foundation>



# Citizens Foundation

(An NGO Regd. Under The Societies Registration Act XXI of 1860)

## FINAL REPORT ON SOCIAL AUDIT OF USHA MARTIN LTD CSR INITIATIVES

Report Submitted to  
USHA MARTIN LTD

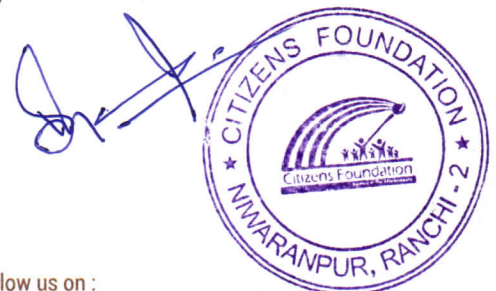
Report Prepared by



.....  
Citizens Foundation, 7 Betar 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



H.O.: 7, Betar Kendra, Niwaranpur, Ranchi - 834002, Jharkhand (India)  
T : +91651-2481777 / 2482777  
E : [mail@citizensfoundation.org](mailto:mail@citizensfoundation.org)  
W : [www.citizensfoundation.org](http://www.citizensfoundation.org)

Follow us on :

[www.facebook.com/citizensfoundationindia](https://www.facebook.com/citizensfoundationindia)  
<https://twitter.com/citizensfoundation>  
<https://www.youtube.com/citizensfoundation>  
<https://www.linkedin.com/company/citizens-foundation>

**FINAL REPORT ON SOCIAL AUDIT**  
**OF**  
**USHA MARTIN LTD CSR INITIATIVES**

**Report Submitted to**  
**USHA MARTIN LTD**

**Report Prepared by**



.....  
Citizens Foundation, 7 Betar 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

The social audit report on UML CSR initiatives would not have been possible without the support of different stakeholders of these projects who have contributed directly and indirectly during the audit process. We are grateful to USHA MARTIN LTD for giving us the opportunity to work on this report. We would like to thank Mr. Ganesh Reddy, CEO, Citizens Foundation for his immense support. We are also thankful to all support staff of Citizens Foundation for their kind support on crucial time.

We would like to thank Dr. Mayank Murari, DGM CSR and PR and other personnel of UML for their support. Without their support it would not have been possible for us to reach the external stakeholders.

All field and supporting staff of UML helped us to understand the implementation process during fieldwork and provided relevant data related to the different projects. We would like to thank all of them.

We also thank different project staffs, mason, member of women groups and different users groups for their valuable inputs. We would also extend a warm thanks to Mr. Shyamal Herenz, Program Manager, CF who contributed magnanimously to this study with their comments and insights.



## Contents

Acknowledgement	2
Chapter-1: Introduction	4-7
Chapter-2: Project description	8-14
Chapter-3: QCM and Recommendations	15-16



## Chapter 1: Introduction

When Usha Martin Ltd. (“Usha Martin”) commenced business in 1962, the Founders 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 as wide a 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.

It is indeed a great divide, and 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 Krishi Gram Vikas Kendra (“KGVK”) as a registered society under the Societies Registration Act, 1860 in Jharkhand in 1977. For KGVK the Founders vision was that it would deliver the social development and economic growth commitment of Usha Martin to rural Jharkhand. To do so, it was envisaged that KGVK perform its activities and to start with, in near and adjacent areas of Usha Martin’s plants and operations. However, to make a real and sustainable difference to rural Jharkhand, KGVK would perform activities across as many geographical areas as its resources and capabilities would allow. Accordingly, mobilizing the community and its available resources, we sought to find a way to ensure sustainable development in the region. In the intervening years, we have achieved some of the goals we had set for ourselves. And a lot remains to be done.

In the beginning Usha Martin’s corporate social responsibilities (“CSR”) had attributes of pure philanthropy, and contributed to other non-government organizations (“NGOs”) to implement various CSR projects. The results were a mixed success until the early 1990s when KGVK became more project-oriented engaging with various institutions to understand the felt needs of rural communities that would make a real measurable difference in their lives.

KGVK’s philosophy is market-based bottom-up approach of integrated interventions that are multi-disciplinary and integrated to effectively deliver the impact on poverty reduction strategies. KGVK’s 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 sharp 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 analyze the broader trends of socio-economic Conditions of local communities.

The needs were many and were 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.

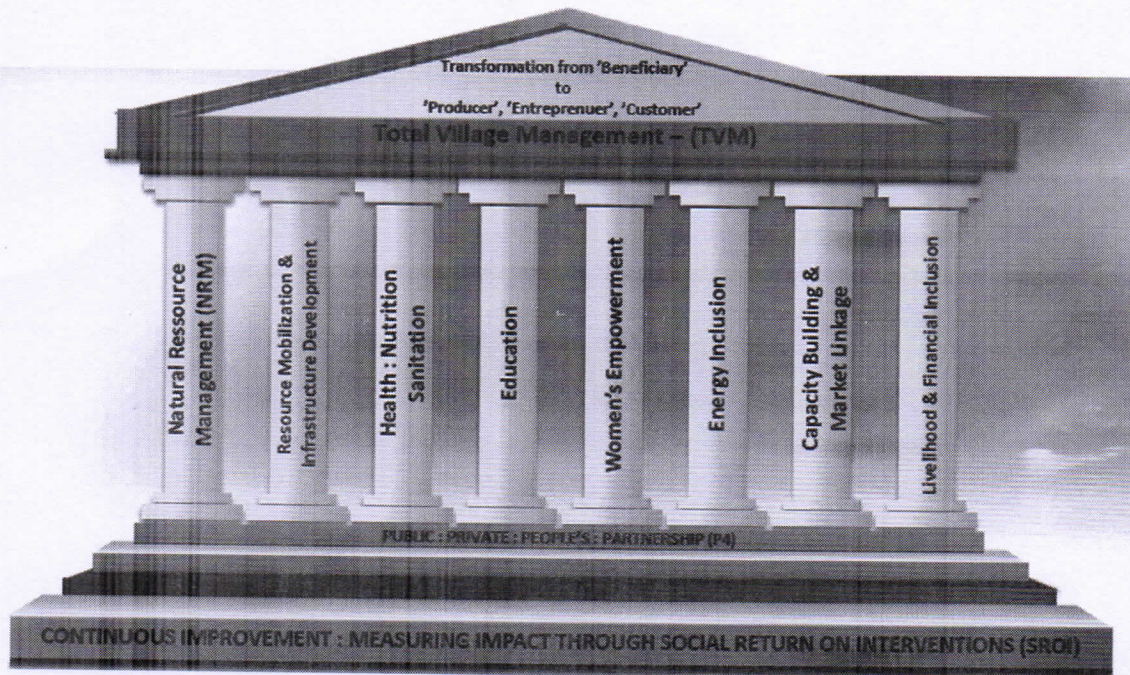
KGVK drew relevance from its core expertise where multiple skills in diverse domains were brought together in a unifying methodology. In 2008, this culminated into the Founders of Usha Martin and KGVK developing an integrated approach through Total Village Management model (“TVM”). The TVM model is a distillation of the experience with the various disciplines of Total Quality Management which at its core requires looking at solutions systemically and holistically. Today and long before the CSR norms of the Companies Act 2013 were introduced, TVM is Usha Martin’s CSR Philosophy and Policy executed on its behalf with the domain expertise developed in KGVK.

#### **CSR MISSION& STRATEGY**

To achieve inclusive growth in our areas of operations and neighbouring communities through integrated community and rural development that is sustainable, scalable and adaptable by transforming beneficiaries to become producers, entrepreneurs and customers. This is also the mission of TVM as executed by KGVK.



## Pillars of Development



### Our Approach: P4

- People
- Public
- Private
- Partnership

### Objectives of Social Audit

1. Social Audit (SA) enables organizations to explore and generate their own values. SA provides a coherent and clear image of UML and helps this organization to plan and execute their CSR activities in a transparent and fair way.
2. It helps the organization to understand how each of the stakeholders of these projects has met the assigned responsibilities.
3. SA helps UML to assess the capabilities of the implementing agencies and accordingly, the organization can identify the plan its future CSR projects.
4. SA creates a new level of participative democracy focused on values and long term visions and in the process makes UML transparent to stakeholders and supporters.

### Scope of Social Audit

The social audit is a transparent process and documentation conducted to measure and manages the social objectives of the company. It is geared to provide better governance systems for any


organization. The social audit is expected to deliver mechanisms by which ULM can identify inconsistencies between its aims and the final implementation. Using the audit report, UML can develop high levels of detailing in what they wish to measure and verify and which will be appropriate to the needs of the organization as well as other stakeholders. The audit will also aid UML to understand the current impact and limitations to impact. In addition, it will provide UML a multi-stakeholder perception of its programme and help in formulation of future CSR policies.

### **Methodology**

Participative methods have been employed to engage stakeholders. The nature of the data is qualitative and quantitative. As it is a multi-stakeholder study, multiple research tools have been adopted. For the data collection multistage sampling technique has been adopted. In the first stage, data has been collected from UML through interview and focus group discussion. In the second stage stratified sampling technique has been adopted for data collection regarding implementation of activities. In the last stage, individual beneficiaries have been identified for interview and focus group discussion. For interviews, semi-structured questionnaire has been designed. The questions are based on the background, development, current conditions, and overall implementation of the project. Even the environmental interactions of one or more individuals, groups, communities involved in the projects have been studied.

### **Outlines of the chapters**

This report consists of three chapters. First chapter gives an overall idea about the scope of social audit for CSR projects. The second chapters provide a proper social audit framework for projects respectively. Finally chapter three provides recommendations and suggestions separately with a notion of running projects for long term sustenance basis.



## Chapter 2: Project Description


The project area of UML-CSR, Ranchi is operational in 29 villages in and around the Captive Power Plant and covering three Blocks of Ranchi District Namely Namkum, Angara and Kanke. Usha Martin Ltd. Company's CSR (Corporate Social Responsibility) is based on Total Village Management (TVM), which are multi-pronged activities interlinked with the values of ownership, transparency and improvement at every level. TVM's 8 pillars together hold up the idea of achieving integrated, equitable and sustainable development through public-private-peoples' partnerships or P4. The 8 pillars represent fields of work that are both separate and interlinked, converging into an integrated workable model. Although there are 29 operational villages but this activity is only carried out in 12 villages of 3 blocks. The details are underneath:

Sr. No	Block Name	Village Number	Panchayat	Village Name
1	Namkum	06	Tati	Tati East and Tati West
			Silwai	Silwa, Haratu
			Mahilong	Mahilong
			Arra	Arra
2	Kanke	03	Khatanga	Khatanga, Lalganj, Pertol
3	Angara	03	Chatra	Chatra
			Hesal	Hesal and Masu



			multiple increases in agricultural production. Adoptions of New Technology as well as practicing of high yielding variety of Seeds have been important features. Due to land & water activity initiation of Double Cropping practices started in programme villages due to increase in moisture content in the soil.
2	Health	<ul style="list-style-type: none"> <li>• Health Camp -18</li> <li>• Celebrate Breast feeding week through home visit of lactating mothers-02</li> <li>• MTC referral/,Hemoglobin Checkup-45</li> <li>• Counseling of 3rd Grade children-Regular</li> <li>• Well Chlorination through bleaching powder.</li> <li>• Counseling of Pregnant lady, Lactating mothers and parents of Malnutrition child and other health issues on health issues during Home visit -48</li> <li>• Health awareness session through School Health session -40</li> <li>• VHSNC meeting-09</li> <li>• Supportive Supervision on VHND session- 47</li> <li>• Adolescent meeting on Anaemia, Sanitation and personal hygiene-37</li> <li>• Referred around 16 severe malnutrition cases to MTC and also we have counseled parents of 65 no. 3<sup>rd</sup> grade malnourished children for enhancing nutrition.</li> <li>• Started Orientation of Adolescent girls especially on Anaemia &amp; Life Cycle approach in all clusters.</li> <li>• Conducted School Health session in all Primary, Middle &amp; High School on different water &amp; vector borne diseases in all TVM villages.</li> <li>• Conducted Prabhat Pheri for awareness on Malaria &amp; Dengue</li> <li>• Organizing Demonstration session for Hygiene &amp; Sanitation.</li> <li>• Conducted Nukkad Natak on sanitation awareness (own toilet)</li> </ul>	<p>It has been found that health activities are not in dire need of a strategic vision. The long term vision is also helping the success of this programme which has tremendous potential for far-reaching impact but still a well planned project as such could result a wide scale on adolescent girls and women.</p> <p>The project has also initiated and facilitated successfully health services in many the programme villages.100 % immunization in programme villages could be ensured. Level of institutional delivery increased to 90%. Trained Sahiyas are available for providing their services for the community. The project also created awareness about the need for safe -drinking water for controlling water borne diseases, the construction of low cost toilet through convergence also improved the sanitation status of the households in the programme area.</p>
3	Livelihoods	<ul style="list-style-type: none"> <li>• Motor Pump distribution among farmers- 61</li> <li>• 09 Poultry unit / Rs 4000-5000 additional income generation.</li> <li>• Fisheries done in 13 ponds/ benefitted 13 Groups.</li> <li>• Mushroom Cultivation going on / 13 SHG initiated</li> <li>• Piggery units (07) are running from which a additional income of Rs 5000-6000 is earned per month.</li> <li>• SHG group has been linked with Daya Sagar NGO for stitching, handicraft..</li> <li>• Animal Health camp with Govt-11No.</li> </ul>	<p>One of the crucial elements of livelihood of people is possession of physical capital such as land, livestock, implements, irrigation facilities etc. These assets constitute the base for crop and animal husbandry which form the core of rural livelihoods. One of the main areas of project interventions has been to improve productivity of land by taking up various</p>

		<ul style="list-style-type: none"> <li>• Cattle Shed-46 No.</li> <li>• Artificial insemination With 57 Cow/ Buffalo for better Breed.</li> <li>• SHGs were trained for preparing Papad</li> <li>• 60 Household trained for Lac Cultivation</li> <li>• 43 farmers trained to cultivate Pea/ Onion</li> <li>• 225 Family practices Kitchen Garden for nutritious Veg. and reuse of waste water</li> </ul>	<p>natural resources management activities like land levelling and field bunding as well as other land management and water conservation practices, improvement of irrigation facilities, advice and guidance on modern agricultural practices, distribution of seeds of improved and new crops, more attention to livestock health care etc. All these activities have been based on micro-watershed based village level micro planning. This is one of the core areas of the UML. The activities aimed to bring positive changes in the livelihood practices of local communities through promotion of groups. The livelihood opportunities / income generating activities were identified considering the existing socio-cultural practices of the target communities. The skill building measures were planned to improve the effectiveness of existing livelihood practices. The project did not impose any practice that is locally unviable. The behavioural and attitudinal changes brought in by the project among the women empowered them to actively participate in decision making processes at the community level. The socio-cultural changes brought in by the project, in terms of livelihood practices, have lasting impact on the target beneficiaries even beyond the project period. The activities significantly affected the lives of tribal in their income generation activities, livelihood security and self employability. It has strengthened the target tribal communities' income generation opportunities through tools and capacity</p>
--	--	---	--



			<p>building support.</p> <p>Few economic activities that were initiated during program implementation are still sustaining (as a result of saving and thrift habits of villagers imparted through group activities). As a result of capacity building and exposure to various Govt. schemes, beneficiaries are also able to avail various govt. scheme at personal as well as village levels. However, there is further need of financial inflows to many households which may not enable them to upscale and expand their livelihoods and food securities in an effective beyond project activities.</p>
4	Education	<ul style="list-style-type: none"> <li>• 06 Adult Education centers are running successfully in 05 villages in which 120 women are being benefitted. Last year 19 batches were organized in which 297 women have learnt to Read &amp; write and they are putting their signature in their bank accounts.</li> <li>• 4 Remedial class (Computer) are running in 4 Govt. school in 4 villages through which 210 weak students are being addressed.</li> <li>• 10 Remedial Resource Center are running in 10 villages where around 155 students are being benefitted.</li> <li>• Two batches of Computer education and English speaking course comprising of 44 youth have been completed in Chatra &amp; Khatnga.</li> <li>• Last year two batches of Computer education and English speaking course comprising of 31 youth have been completed in Ara &amp; Mahilong.</li> <li>• Village Education Committee meeting is being attended by CSR team in all villages.</li> </ul>	<p>Arguably, the visible and not-so-visible constraints on the availability of—free education disproportionately affect the students from lower socio-economic backgrounds and disadvantaged classes such as daily wage-earners, SC, ST, students. To overcome these disadvantageous conditions, students from these backgrounds need special care and attention. Well-calibrated learning procedures and the requisite sensitivity on the part of the teachers can largely mitigate the adverse impact of class distinction and disadvantageous conditions on the learning of the children. To provide equal opportunities for learning despite class differences remains the foremost challenge of the day. The role played by VEC with the support of CSR initiatives is to identify social relations between the teacher and the students, the teachers' perception of the taught, the degree of priority, attention, delivery, accountability of the teachers and work environment. Then</p>

			<p>efforts have been able to bring sustainable change not only in regular students but also on adults through adult education centers. The schools were chosen by UML in areas where they had their centers so that the monitoring of the programme would be easier and the local environment in which UML existed would profit from the initiative.</p>
5	Renewal Energy	<ul style="list-style-type: none"> <li>• Distributed Transparent Sheet for 120 Household</li> <li>• Smokeless Chulha- 20 Household</li> <li>• Solar Micro Grid Installed--02HH</li> </ul>	<p>This activity is in appalling need of a strategic vision around which it can develop into a wholesome programme with far-reaching impact. The lack on a long term vision is also hampering the success of this programme which has tremendous potential for far-reaching impact. A well planned project can be implemented so that more beneficiaries could avail the benefits.</p>
6	Training and Capacity Building	<p>Training of farmers on local pest management/ organic manure/ SRI technique/ govt. schemes/ improved cropping practices/ Farm training/ sanitation awareness session etc.</p>	<p>The importance of training and continuous capacity building programme has been identified for improving the quality of life as vital for success of the project. Such rigorous training programmes were a challenge for those who were not used to this kind of pedagogy. This has exposed socially excluded groups, and members of various user groups. Previously, decisions were taken at the top and they were supposed to percolate down to the grassroots. But this educational process enabled the people to become active agents of change and not the beneficiaries of change. The subject-object dichotomy disappeared by the time of the issue-based action. This has changed the whole attitude and outlook of the people particularly the socially excluded groups and the women.</p>

7	Convergence	Govt Scheme	Number	
		Crop Insurance	306	<p>There was a strong rationale for “converging” of some rural development programmes to make them more efficient and cost effective. The company programmes are integrated into government systems, and are well placed to play a catalytic role in converging resources with other initiatives that are targeted in the same areas. Collaboration with other programmes, schemes and services has been an explicit objective of all programmes, and is growing in importance.</p> <p>The National Rural Employment Guarantee Programme (NREGP), NHM, Social welfare development schemes and irrigation schemes are particularly obvious target for convergence with rural livelihood programmes. The company work closely with the panchayat, block and district line department officials to improve the quality of implementation, and monitor its effectiveness at field level. Regular orientation, trainings and workshops are organized at regular intervals for the members of panchayat, block and district officials.</p>
		PM Suraksha Bima Yojana	230	
		Old Age pension (new Bens.)	35	
		Widow Pension (new Bens.)	32	
		Handicapped Pension (new Bens.)	13	
		New Hand pump Installation	07	
		New Well Construction	11	
		Hand pump Repair (Govt.)	112	
		Drip Irrigation	15	
		New Pond	05	
		Jal Minar with Solar Panel	10	

### Chapter 3: QCM and Recommendations

#### Quality Check Matrix

On the basis of the above observation, it is required to check the quality of the programme whether each stage of proposed operation was properly followed or not. To do this, we have prepared the quality check matrix to know about the inconsistency existed between the stated governance statement and actual plan of action. It will also help us to locate the source of instability in the process of implementation. It will also help to understand about the lacuna in the process of overall supervision and would help them to revise their future plan of action.

Quality Criteria	Scoring Category				
	Fully	Partly	Fairly	Hardly	Not at all
Is there a relevant governance statement that describes the CSR programme of UML?	Yes				
Did stakeholders participate in creating the governance statement?				Yes	
Are the values of the programme clearly stated?	Yes				
Are the programme rules clearly listed?	Yes				
Are the programme rules covering every aspect of the planning?			Yes		
Are the programme rules following strictly by each of the stake holders?			Yes		
Is there any lack of co-ordinations found among different stakeholders in the phases of Operation?			Yes		
Whether proper timeline/ calendar were followed at the outset of the financial year/ phase of Operation?			Yes		
Is UML consistently providing fund?	Yes				
Do the stakeholders know about the organization?	Yes				
Is there effective dialogue among stakeholders?			Yes		
Are stakeholders satisfied with the programme?		Yes			
Are stakeholders appropriately involved in the Execution of the programme?	Yes				

The Quality matrix check clearly highlights some critical issues. A governance statement can emerge out of the same. A well developed plan is extremely essential to ensure systematic implementation of the programme across the villages. For any development programme, it is pertinent that the stakeholders are continually engaged and involved in the planning process. There is fair amount of stakeholder involve in the planning. It has to be excellent category for the execution of successful programmes.

## Recommendations

### Strengthen CSR department

It is expected that UML should strengthen its CSR department so that overall supervision becomes easy. Recruitment of specialized expert as consultants will also help them to draw the plan of action and its periodic implementation. Periodic monitoring, surprise visit will also help the CSR team to build rapport at the grassroots level.

### Improve the Employment Opportunity

The success of livelihoods programme lies on creating employment opportunity for the unemployed and unskilled youth. UML along with any partner should develop support system to create wage employment as well as self employment for the beneficiaries through networking with industries.

### Set Yearly target in the first quarter of the financial year

To smoothen the implementation at the grassroots level, a yearly target should be in the first quarter of the financial year. It will help to implement the project in a better manner.





**Testing and Calibration Laboratories**  
(A Constituent Board of Quality Council of India)



**CERTIFICATE OF ACCREDITATION**

**ENVIRONMENTAL LABORATORY OF CPP**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2005**

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

for its facilities at

2X10 MW CPP, Usha Martin Ltd., Tatisilwai, Ranchi, Jharkhand

in the field of

**TESTING**

Certificate Number TC-5404

Issue Date 31/03/2017

Valid Until 30/03/2019



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))

Signed for and on behalf of NABL

o/c

ANNEX 12

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. ✓ *Patodia*  
*27-4-11*

The Zila Parishad, Ranchi.

The Chottanagpur Chamber of Commerce & Industries,  
Ranchi.

The Gram Panchayat,  
Vill : Tati, Ranchi.

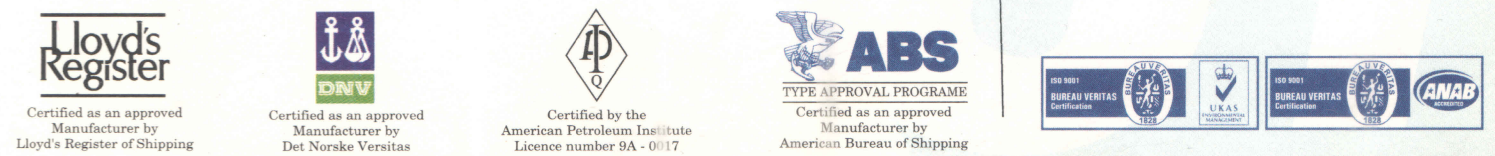
The Gram Panchayat,  
Vill : Haratu, Ranchi.

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

Along with photocopy  
of one set of the above  
mentioned letter

**Jharkhand State Pollution  
Control Board**

*Mr. A. Haris, Ranchi-834003*



# Usha martin Limited, 2X10 MW CPP

## Display Board at CPP main Gate





**TO WHOM IT MAY CONCERN**

This is to certify that M/s Usha Martin Ltd., Tatisilwai, Ranchi has invested **Rs. 118,07,41,595.00** ( One Hundred Eighteen Crores Seven Lakhs Forty one Thousand Five Hundred and Ninety Five Only) for 2Nos. of 10 MW Captive Power Plant as on 31.03.13. Out of two units, one unit was commissioned in March 2012 & second unit was commissioned in December 2012.

This certificate has been issued on the basis of records and information as made available to us.

**For Deoki Bijay & Co.**  
**Chartered Accountants**  
**F. R. No.-313105E**

**CA. Niraj Poddar**  
**(Partner)**

**Membership No.- 401067**  
Place: Ranchi  
Date: 23.04.2013

