

Ref: CPP/ENV/UML/EC/MOEF/20-21/08

Dated: 27.11.2020

To

DDG , 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](mailto:ro.ranchi-mef@gov.in)

Kind Attn: Dr. T.H.Mahato

**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 April'20 to Sept'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 April'20 to Sept'20 for your kind perusal and reference.

Thanking you and best regards,

Yours faithfully,  
For Usha Martin Ltd., Ranchi



Authorized Signatory

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

**Encl: Compliance status with all annexure**

	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 : April'2020 to Sept'2020

**Environmental Clearance Compliance Report (Period: April'20 to Sept'20)**

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

With reference to the subject mentioned, please find the compliance status of conditions stipulated in EC granted to our 2X10MW CPP vide letter no.- J-13012/122/2008-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>• The MoEF&amp;CC has issued EC amendment vide letter dated 09.10.2019 and accords -</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	<ul style="list-style-type: none"> <li>• Complied.</li> <li>• High Efficiency Electrostatic Precipitators (ESPs) has been installed</li> </ul>

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	handling points, transfer areas and other vulnerable dusty areas shall be provided.	<ul style="list-style-type: none"> <li>• Provided Bag filters and static water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable areas.</li> </ul>
(iii)	Sulfur and ash contents in the coal to be used in the project shall not exceed 0.5 % and 34 % respectively at any given time. In case of variation of coal quality at any point of time fresh reference shall be made of MoEF for suitable amendments to environmental clearance condition wherever necessary.	<ul style="list-style-type: none"> <li>• An Amendment to use 41.7% ash has been issued vide letter No-J-13012/122/2008-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 SO<sub>x</sub>, NO<sub>x</sub> 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 de-generated water bodies in the study area of CPP.</li> </ul>

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

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	sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.	<ul style="list-style-type: none"> <li>All the function of ETP and STP are in closed loop, as such there will be no chance of getting mixed with storm water.</li> <li>Maintaining ZERO discharge from CPP</li> </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.	We have achieved Fly Ash utilization rate of 99.7% at CPP in last six month. The Ash utilization report for last one year is attached for your ref. as <u>Annex-7</u>
(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.	
(xvii)		<ul style="list-style-type: none"> <li>Complied.</li> <li>Phase wise plantation is in process.</li> </ul>

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	Green Belt consisting of 3 tiers of plantations of native species around plant and covering 33% of area shall be raised. Tree density shall not less than 2500 per ha with survival rate not less than 80%.	<ul style="list-style-type: none"> <li>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>

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(xx)	While identifying CSR activities it shall be ensured that need based assessment for the nearby villages within study area shall be conducted to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people shall be undertaken. Development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. Vocational training programme for possible self-employment and jobs shall be imparted to identified villagers free of cost.	<ul style="list-style-type: none"> <li>Complied.</li> <li>CSR report Attached as <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 as <b>Annex-10</b></li> </ul>


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

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	Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	
(iii)	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for <u>heavy metals (Hg, Cr, As, Pb)</u> and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	<ul style="list-style-type: none"> <li>Complied.</li> </ul>
(iv)	Monitoring surface water quantity and quality shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.	<ul style="list-style-type: none"> <li>Complied.</li> <li>Samples checked on regular basis. 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	<ul style="list-style-type: none"> <li>Being Complied.</li> <li>Monitored regularly by in-house NABL Accredited Environmental laboratory.</li> </ul>

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	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>• Accreditation certificate is attached as <b>Annex-11</b></li> </ul>
(viii)	Provision shall be made for the housing of construction labour (as applicable) within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	<ul style="list-style-type: none"> <li>• Complied.</li> </ul>
(ix)	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forest at <a href="http://envfor.nic.in">http://envfor.nic.in</a> .	<ul style="list-style-type: none"> <li>• Complied.</li> </ul>
(x)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila 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>

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(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 as <b><u>Annex-13</u></b></li> <li>• All prescribed 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 by 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>

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(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 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 as <b>Annex-14</b></li> </ul>
(xviii)	Full cooperation shall be extended to the Scientists/ Officers from the Ministry / Regional Office of the Ministry at Bangalore / CPCB/ SPCB who would be monitoring the compliance of environmental status.	<ul style="list-style-type: none"> <li>• Agreed,</li> <li>• Noted for compliance</li> </ul>


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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>Operations already started</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>Agreed,</li> <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>

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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.
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.
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>
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>

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vii.	Avenue plantation shall be carried out in consultation with Social Forestry Department and NHAI or PWD along the routes proposed for transportation. The progress report such a number of sampling planted, length of road covered, survival rate, expenditure on maintenance (tree guard, watering and manure supply) shall be submitted along with six monthly compliance report.	<ul style="list-style-type: none"> <li>• Noted</li> </ul>
viii.	The PP shall advertise in the local leading newspapers and place on the website, the temporary permission accorded by the Ministry as a part of public information.	<ul style="list-style-type: none"> <li>• Complied</li> <li>• Published on dated 09.11.2019</li> </ul>
ix.	The SO <sub>2</sub> and No <sub>x</sub> emissions from the flue gas shall be restricted to below 600 mg/Nm <sup>3</sup> and 600 Mg/Nm <sup>3</sup> , respectively.	<ul style="list-style-type: none"> <li>• Being followed</li> <li>• Report attached</li> </ul>
23	All other conditions mentioned in the EC vide dated 07.04.2011 shall remain the same.	<ul style="list-style-type: none"> <li>• Noted</li> </ul>



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

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

Dated: 13.05.2020

To

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

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

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

Sir,

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

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

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

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

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

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

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

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

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

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

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

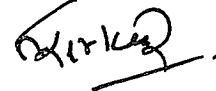
10. The matter was placed before the Re-constituted Expert Appraisal Committee (Thermal Power) in its meetings held on 21.2.2020. In acceptance of the

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

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

This issues with the approval of the Competent Authority.

Yours faithfully,



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

Copy to:

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



Director, IA.I



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

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

Dated: 09.10.2019

To

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

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

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

Sir,

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

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

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

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

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

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

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

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

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

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

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

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

11. It has been informed that the Lohari coal block (near Daitonganj, 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:**

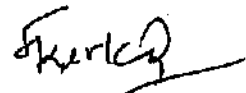
- a) **Ex-post facto permission for sourcing of coal through e-auction and transportation by road for a period of three years i.e. till 31.03.2018;**
- b) **Permission to transport coal by road for further period of three years, i.e. till 31.03.2021; A final decision to allow road permanently will be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



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:

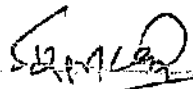
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2	FY14	67,480
3	FY15	1,12,995
4	FY16	1,14,883
5	FY17	1,17,258
6	FY18	1,25,134
Total		6,01,532

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



**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
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- 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%.

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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.

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Route-1: HEC Plant to CPP.	64.77	0.90	2.80	2.02	59.05	Black top: 64.57 & Concrete: 0.2 km
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7. The traffic sufficiency assessment has been estimated. The percentage utilisation of road after taking into consideration of existing traffic and incremental is in the range of 32-116%. Where existing traffic is exceeding the design service volume of the road, it has been proposed to restrict the movement of trucks to the time period between 9 pm to 8 am only, when the traffic is lean.

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

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

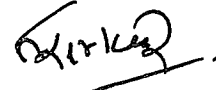
10. The matter was placed before the Re-constituted Expert Appraisal Committee (Thermal Power) in its meetings held on 21.2.2020. In acceptance of the

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

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

This issues with the approval of the Competent Authority.

Yours faithfully,



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

Copy to:

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



Director, IA.I

**ENVIRONMENTAL LABORATORY, 2X10 MW CPP, TATISILWAI, RANCHI (JHARKHAND) – 835103**
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**OFFICE NO: 06513051 683, 06513051 689 Fax: 06513051 409/410**

**TEST REPORT**  
**NOISE MONITORING**

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

<b>Date of Sampling</b> : 13.07.2020 – 18.07.2020	<b>Client Name</b> : Usha Martin limited (CPP)
<b>Sample ID</b> : JUL/ CPP/NOS/04	<b>Client Address</b> : Tatisilwai, Ranchi
<b>Type of Sample</b> : Noise	<b>Client Code</b> : UML/ CPP/03
<b>Duration of Sampling</b> : 24hrs (Per Location)	<b>State</b> : Jharkhand
<b>Sample Drawn by</b> : Mr. Suraj Kumar	<b>Test Performed</b> : At Permanent Lab
<b>Sample Plan Reference</b> : UML/DOC/110	<b>Date of Report</b> : 20.07.2020
<b>UNIQUE LAB REPORT NO</b> : TC540419000000532F	<b>Sample Description</b> : Measurement of Noise at UML CPP Area

**TEST REPORT OF NOISE LEVEL**

Monitoring Date	13.07.2020 – 18.07.2020						
	Station Location	Noise Results in dB (A) Day			Noise Results in dB (A) Night		
		AVG	MIN	MAX.	AVG.	MIN.	MAX.
	CPP MAIN GATE	63.9	58.2	69.4	60.2	54.2	67.9
	CPP WTP AREA	63.9	59.2	68.5	57.5	54.3	61.2
	CPP BOILER AREA	80.2	75.2	84.2	78.3	76.2	80.2
	CPP ADM BUILDING	65.4	59.4	69.2	62.1	57.4	68.4
	CPP COAL YARD AREA	59.2	53.2	63.4	55.9	53.45	58.9

**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

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*Manish*  
TESTED BY  
(Manish Kumar)

*Tanmay*  
CHECKED BY  
(Tanmay Roy)

*Tanmoy*  
AUTHORISED BY  
(Tanmoy Sinha)



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

**DATA LOGGER FOR NOISE MONITORING**

AREA OF SAMPLING	USHA MARTIN LIMITED (CPP)
LOCATION OF SAMPLING	MAIN GATE AREA
SAMPLE ID/NAME	JUL/ CPP/NOS/04A
TESTING PERFORMED BY	SURAJ KUMAR
TEST METHOD	IS 9989

SL.NO.	DATE	TIME	VALUE	UNIT
1	7/13/2020	9:03:09	69.4	dB
2	7/13/2020	10:03:09	63.2	dB
3	7/13/2020	11:03:09	63.2	dB
4	7/13/2020	12:03:09	64.5	dB
5	7/13/2020	13:03:09	63.8	dB
6	7/13/2020	14:03:09	66.2	dB
7	7/13/2020	15:03:09	58.4	dB
8	7/13/2020	16:03:09	60.2	dB
9	7/13/2020	17:03:09	58.2	dB
10	7/13/2020	18:03:09	62.5	dB
11	7/13/2020	19:03:09	64.8	dB
12	7/13/2020	20:03:09	63.8	dB
13	7/13/2020	21:03:09	66.2	dB
14	7/13/2020	22:03:09	67.9	dB
15	7/13/2020	23:03:09	55.2	dB
16	7/14/2020	0:03:09	59.2	dB
17	7/14/2020	1:03:09	54.2	dB
18	7/14/2020	2:03:09	57.6	dB
19	7/14/2020	3:03:09	60.2	dB
20	7/14/2020	4:03:09	58.9	dB
21	7/14/2020	5:03:09	63.2	dB
22	7/14/2020	6:03:09	65.9	dB
23	7/14/2020	7:03:09	66.9	dB
24	7/14/2020	8:03:09	67.3	dB
<b>AVERAGE READING</b>			<b>62.5</b>	<b>dB</b>
<b>MAXIMUM READING</b>			<b>69.4</b>	<b>dB</b>
<b>MINIMUM READING</b>			<b>54.2</b>	<b>dB</b>

*mid*

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**DATA LOGGER FOR NOISE MONITORING**

AREA OF SAMPLING	USHA MARTIN LIMITED (CPP)
LOCATION OF SAMPLING	WTP AREA
SAMPLE ID/NAME	JUL/CPP/NOS/04B
TESTING PERFORMED BY	SURAJ KUMAR
TEST METHOD	IS 9989

SL.NO.	DATE	TIME	VALUE	UNIT
1	7/14/2020	9:51:12	67.5	dB
2	7/14/2020	10:51:12	63.2	dB
3	7/14/2020	11:51:12	64.5	dB
4	7/14/2020	12:51:12	61.2	dB
5	7/14/2020	13:51:12	64.5	dB
6	7/14/2020	14:51:12	68.5	dB
7	7/14/2020	15:51:12	60.2	dB
8	7/14/2020	16:51:12	63.5	dB
9	7/14/2020	17:51:12	63.5	dB
10	7/14/2020	18:51:12	64.9	dB
11	7/14/2020	19:51:12	66.5	dB
12	7/14/2020	20:51:12	63.2	dB
13	7/14/2020	21:51:12	56.2	dB
14	7/14/2020	22:51:12	55.4	dB
15	7/14/2020	23:51:12	57.9	dB
16	7/15/2020	0:51:12	60.2	dB
17	7/15/2020	1:51:12	58.9	dB
18	7/15/2020	2:51:12	61.2	dB
19	7/15/2020	3:51:12	55.4	dB
20	7/15/2020	4:51:12	54.3	dB
21	7/15/2020	5:51:12	57.9	dB
22	7/15/2020	6:51:12	59.2	dB
23	7/15/2020	7:51:12	65.2	dB
24	7/15/2020	8:51:12	63.2	dB
<b>AVERAGE READING</b>			<b>61.5</b>	<b>dB</b>
<b>MAXIMUM READING</b>			<b>68.5</b>	<b>dB</b>
<b>MINIMUM READING</b>			<b>54.3</b>	<b>dB</b>

nil

CPP (2 X 10MW)  
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TATISILWAI P



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**DATA LOGGER FOR NOISE MONITORING**

AREA OF SAMPLING	USHA MARTIN LIMITED (CPP)
LOCATION OF SAMPLING	BOILER AREA
SAMPLE ID/NAME	JUL/ CPP/NOS/04C
TESTING PERFORMED BY	SURAJ KUMAR
TEST METHOD	IS 9989

SL.NO.	DATE	TIME	VALUE	UNIT
1	7/15/2020	9:15:44	84.2	dB
2	7/15/2020	10:15:44	83.9	dB
3	7/15/2020	11:15:44	80.2	dB
4	7/15/2020	12:15:44	79.3	dB
5	7/15/2020	13:15:44	81.2	dB
6	7/15/2020	14:15:44	78.6	dB
7	7/15/2020	15:15:44	80.6	dB
8	7/15/2020	16:15:44	81.9	dB
9	7/15/2020	17:15:44	78.4	dB
10	7/15/2020	18:15:44	79.2	dB
11	7/15/2020	19:15:44	82.4	dB
12	7/15/2020	20:15:44	75.2	dB
13	7/15/2020	21:15:44	77.8	dB
14	7/15/2020	22:15:44	78.2	dB
15	7/15/2020	23:15:44	76.2	dB
16	7/16/2020	0:15:44	80.2	dB
17	7/16/2020	1:15:44	79.9	dB
18	7/16/2020	2:15:44	78.4	dB
19	7/16/2020	3:15:44	77.5	dB
20	7/16/2020	4:15:44	77.9	dB
21	7/16/2020	5:15:44	76.9	dB
22	7/16/2020	6:15:44	79.4	dB
23	7/16/2020	7:15:44	79.2	dB
24	7/16/2020	8:15:44	81.2	dB
<b>AVERAGE READING</b>			<b>79.5</b>	<b>dB</b>
<b>MAXIMUM READING</b>			<b>84.2</b>	<b>dB</b>
<b>MINIMUM READING</b>			<b>75.2</b>	<b>dB</b>

*ms*

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## TEST REPORT

### ETP WATER

#### Sample Details

#### Client Details

Date & Time of Sampling : 06.08.2020 & 10:30AM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : AUG/CPP/EW/11	Client Address : Tatisilwai, Ranchi
Type of Sample : TREATED ETP WATER	Client Code : UML/CPP/04
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Anil Kumar Pradhan	Date of Receipt of Sample : 06.08.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 06.08.2020
Testing Condition : 25.2°C, 61 %RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540420000000561F	Date of Report : 25.08.2020


## REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		5.50 – 9.00	7.17	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr		204.0	APHA 22 <sup>nd</sup> Edition-2540 C
3	Total Suspended solids	Mg/ltr	100.00	7.28	APHA 22 <sup>nd</sup> Edition-2540 D
4	Dissolved oxygen	Mg/ltr		6.7	IS:3025, (part-38) 2014
5	Oil & Grease	Mg/ltr	10.00	2.0	IS:3025, (part-39) 2014

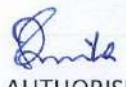
\*\* General standards for discharge of environmental pollutants vide Ministry of Env. And Forests notification dated 19<sup>th</sup> May, 1993 and amendment dated 31<sup>st</sup> December, 1993.

#### Declaration:-

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TESTED BY  
(Manish Kumar)

  
CHECKED BY  
(Tanmay Roy)

  
AUTHORISED BY  
(Tanmoy Sinha)

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**TEST REPORT****ETP WATER****Sample Details****Client Details**

Date & Time of Sampling : 06.08.2020 & 10:30AM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : AUG/ CPP/ EW/11	Client Address : Tatisilwai, Ranchi
Type of Sample : TREATED ETP WATER	Client Code : UML/ CPP/04
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Anil Kumar Pradhan	Date of Receipt of Sample : 06.08.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 06.08.2020
Testing Condition : 25.2°C , 61 %RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC54042000000561F	Date of Report : 25.08.2020


**TEST REPORT**

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Lead	Mg/ltr	0.10	<0.10
2	Zinc	Mg/ltr	5.00	1.23
3	Phosphate	Mg/ltr	5.00	0.49
4	Chloride	Mg/ltr	-	364.0
5	BOD, 3 days at 27 °C	Mg/ltr	30.00	5.9
6	COD	Mg/ltr	250.00	42.9
7	Iron	Mg/ltr	3.00	0.85
8	Manganese	Mg/ltr	2.00	0.23


\*\* 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.

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## TEST REPORT AMBIENT AIR MONITORING

### Sample Details

### Client Details

Date & Time of Sampling : 06.10.2020 & 10:40 AM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/SEP/WTP/13	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 : 07.10.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 07.10.2020
Testing Condition : 24.5°C , 58%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC54042000000595F	Date of Report : 10.10.2020


### REPORT

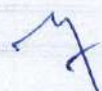
Sl.No.	Sample Location	Parameter	Unit	Desirable limit *	Results	Test Method
1	WTP AREA	Particulate Matter PM2.5	µg/M <sup>3</sup>	≤60.00	41.35	SOP/UML/WT/02 Based on CPCB guideline Vol-I : 2012
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	63.97	IS:5182 (PT – 23) : 2006
3		Sulphur Dioxide	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:

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(Tanmay Roy)

  
AUTHORISED BY  
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## TEST REPORT AMBIENT AIR MONITORING

### Sample Details

### Client Details

Date & Time of Sampling	: 05.10.2020 & 10:30AM	Client Name	: Usha Martin Limited (CPP Div)
Sample ID	: CPP/ENV/SEP/MG/12	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	: 06.10.2020
Sample Plan Reference	: UML/DOC/110	Date of testing	: 06.10.2020
Testing Condition	: 24.5°C, 55%RS	Test Performed	: At Permanent Lab
UNIQUE LAB REPORT NO	: TC54042000000594F	Date of Report	: 10.10.2020


### 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	37.54	SOP/UML/WT/02 Based on CPCB guideline Vol-I : 2012
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	58.57	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:

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**TEST REPORT**  
**AMBIENT AIR MONITORING**

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

Date & Time of Sampling : 03.10.2020 & 9:10AM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/SEP/MTG/10	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 : 04.09.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 04.09.2020
Testing Condition : 25.5°C, 58%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC54042000000592F	Date of Report : 10.10.2020


**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	49.67	SOP/UML/WT/02 Based on CPCB guideline Vol-I : 2012
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	59.76	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	11.09	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:

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## TEST REPORT AMBIENT AIR MONITORING

### Sample Details

### Client Details

Date & Time of Sampling	:04.09.2020 & 9:50PM	Client Name	:Usha Martin Limited (CPP Div)
Sample ID	: CPP/ENV/SEP/SLF/11	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	: 05.10.2020
Sample Plan Reference	: UML/DOC/110	Date of testing	: 05.10.2020
Testing Condition	: 24.2°C, 58%RS	Test Performed	: At Permanent Lab
UNIQUE LAB REPORT NO	: TC540420000000593F	Date of Report	: 10.10.2020


### 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	45.51	SOP/UML/WT/02 Based on CPCB guideline Vol-I : 2012
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	65.94	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

  
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## TEST REPORT STACK MONITORING

### Sample Details

### Client Details

Date & Time of Sampling : 27.09.2020 & 02:30PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/SEP/STACK/21	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 : 27.09.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 27.09.20-28.09.20
Testing Condition : 25.2°C, 60%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540420000000616F	Date of Report : 10.10.2020

### 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)		115.0	
4	Average Velocity	(m/s)		21.25	
6	Particulate matter	(mg/Nm <sup>3</sup> )	50.00	46.87	IS 11255, (part-1) 1985 reaffirmed 2003
7	Sulphur Dioxide	(mg/Nm <sup>3</sup> )	350.00	252.16	IS 11255, (part-2) 1985 reaffirmed 2003
8	Nitrogen Oxides	(mg/Nm <sup>3</sup> )	350.00	145.07	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>.**

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## TEST REPORT OF COAL

### Sample Details

### Client Details


Date & Time of Sampling : 09.09.2020 & 10:35PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : CPP/SEP/02	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 : 09.09.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 09.09.2020
Testing Condition : 25.6°C, 60 %RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540420000000577F	Date of Report : 25.09.2020

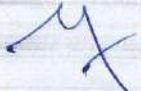
## COAL TEST REPORT


Sl.no.	Analysis	unit	Result	Test method
1	MOISTURE (IN SAMPLE COAL)	%	2.59	IS : 1350 (part-1) 1984 RA 2013
2	ASH	%	36.37	IS : 1350 (part-1) 1984 RA 2013
3	VM	%	27.18	IS : 1350 (part-1) 1984 RA 2013
4	GCV	Kcal/kg	3957	IS : 1350 (part-2) 1970 RA 2015

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## TEST REPORT OF COAL

### Sample Details

### Client Details

Date & Time of Sampling : 20.09.2020 & 10:45PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : CPP/SEP/03	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 : 20.09.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 20.09.2020
Testing Condition : 25.1°C, 54 %RH	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540420000000582F	Date of Report : 25.09.2020

## COAL TEST REPORT

Sl.no.	Analysis	unit	Result	Test method
1	MOISTURE (IN SAMPLE COAL)	%	2.96	IS : 1350 (part-1) 1984 RA 2013
2	ASH	%	39.67	IS : 1350 (part-1) 1984 RA 2013
3	VM	%	25.36	IS : 1350 (part-1) 1984 RA 2013
4	GCV	Kcal/kg	4240.0	IS : 1350 (part-2) 1970 RA 2015

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## TEST REPORT ETP WATER

### Sample Details

### Client Details

Date & Time of Sampling : 02.09.2020 & 4PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : SEP/ CPP/ EW/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 : 02.09.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 02.09.2020
Testing Condition : 24.8°C, 62 % RH	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC54042000000575F	Date of Report : 25.09.2020

### REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		5.50 – 9.00	7.75	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr		296.0	APHA 22 <sup>nd</sup> Edition-2540 C
3	Total Suspended solids	Mg/ltr	100.00	23.24	APHA 22 <sup>nd</sup> Edition-2540 D
4	Dissolved oxygen	Mg/ltr		9.2	IS:3025, (part-38) 2014
5	Oil & Grease	Mg/ltr	10.00	4.0	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.

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## TEST REPORT ETP WATER

### Sample Details

### Client Details

Date & Time of Sampling : 02.09.2020 & 4PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : SEP/ CPP/ EW/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 : 02.09.2020
Sample Plan Reference : UML/ DOC/ 110	Date of testing : 02.09.2020
Testing Condition : 24.8°C , 62 % RH	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540420000000575F	Date of Report : 25.09.2020


### TEST REPORT


Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Lead	Mg/ltr	0.10	<0.10
2	Zinc	Mg/ltr	5.00	0.96
3	Phosphate	Mg/ltr	5.00	0.71
4	Chloride	Mg/ltr	-	445.0
5	BOD, 3 days at 27 °C	Mg/ltr	30.00	2.2
6	COD	Mg/ltr	250.00	27.0
7	Iron	Mg/ltr	3.00	1.12
8	Manganese	Mg/ltr	2.00	0.11


\*\* 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.

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**TEST REPORT**  
**NOISE MONITORING**

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

<b>Date of Sampling</b> : 05.10.2020 – 10.10.2020	<b>Client Name</b> : Usha Martin limited (CPP)
<b>Sample ID</b> : SEP/ CPP/NOS/04	<b>Client Address</b> : Tatisilwai, Ranchi
<b>Type of Sample</b> : Noise	<b>Client Code</b> :UML/ CPP/03
<b>Duration of Sampling</b> : 24hrs (Per Location)	<b>State</b> : Jharkhand
<b>Sample Drawn by</b> : Mr. Suraj Kumar	<b>Test Performed</b> : At Permanent Lab
<b>Sample Plan Reference</b> : UML/DOC/110	<b>Date of Report</b> : 10.10.2020
<b>UNIQUE LAB REPORT NO</b> : TC540419000000620F	<b>Sample Description</b> : Measurement of Noise at UML CPP Area

**TEST REPORT OF NOISE LEVEL**


Monitoring Date	05.10.2020 – 10.10.2020						
	Station Location	Noise Results in dB (A) Day			Noise Results in dB (A) Night		
		AVG	MIN	MAX.	AVG.	MIN.	MAX.
	CPP MAIN GATE	61.2	55.9	70.2	62.0	51.2	66.4
	CPP WTP AREA	64.5	59.2	68.4	58.7	56.2	61.2
	CPP BOILER AREA	80.8	77.6	85.2	79.8	75.2	84.2
	CPP ADM BUILDING	66.8	63.2	69.4	63.2	58.4	67.2
	CPP COAL YARD AREA	60.6	54.2	68.2	56.0	51.2	59.4

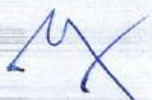
**Ambient Air Quality Norms in Respect of Noise**


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

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## TEST REPORT DRINKING WATER

### Sample Details

### Client Details

Date & Time of Sampling : 02.09.2020 & 4 PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : AUG/ CPP/ DR/ 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 : 02.09.2020
Sample Plan Reference : UML/ DOC/ 110	Date of testing : 04.09.2020
Testing Condition : 24.8°C , 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC54042000000573F	Date of Report : 25.09.2020


### REPORT

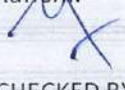
Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		6.50 to 8.50	7.25	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr	500.00	58.0	APHA 22 <sup>nd</sup> Edition-2540 C
3	Turbidity	NTU	1.00	< 0.10	APHA 22 <sup>nd</sup> Edition-2130 B
4	Alkalinity	Mg/ltr	200.00	24.0	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	30.0	IS:3025, (part-21) 2014
7	Calcium (as CaCO <sub>3</sub> )	Mg/ltr	75.00	22.0	IS:3025, (part-40) 2014
8	Magnesium (as CaCO <sub>3</sub> )	Mg/ltr	30.00	8.0	APHA 22 <sup>nd</sup> Edition -3500mg B
9	Chloride	Mg/ltr	250.00	18.99	IS:3025, (part-32) 2014
10	Sulphate	Mg/ltr	200.00	3.48	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	0.24	IS:3025, (part-53) 2014
13	Nitrate	Mg/ltr	45.00	< 0.05	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		2.65	IS:3025, (part-35) 2014
16	Temperature	°C		23.5	IS:3025, (part-9) 2006

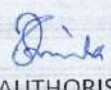
**\*\* IS: 10500(2012): Drinking Water Specification**

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**TEST REPORT**  
**DRINKING WATER**

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

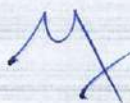
Date & Time of Sampling : 02.09.2020 & 4 PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : AUG/ CPP/ DR/ 09	Client Address : Tatisilwai, Ranchi
Type of Sample : DRINKING WATER	Client Code : UML/ CPP/ 03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Anil Kumar Pradhan	Date of Receipt of Sample : 02.09.2020
Sample Plan Reference : UML/ DOC/ 110	Date of testing : 04.09.2020
Testing Condition : 24.8°C, 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC54042000000573F	Date of Report : 25.09.2020

**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	0.023
5	Manganese	Mg/ltr	0.10	0.057
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:-**

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## TEST REPORT GROUND WATER

### Sample Details

### Client Details

Date & Time of Sampling : 02.09.2020 & 4PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : SEP/ CPP/GW/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 : 02.09.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 04.09.2020
Testing Condition : 24.8°C, 62 %RH	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC54042000000574F	Date of Report : 25.09.2020

### REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		6.50 to 8.50	6.88	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr	500.00	284.0	APHA 22 <sup>nd</sup> Edition-2540 C
3	Turbidity	NTU	1.00	102.0	APHA 22 <sup>nd</sup> Edition-2130 B
4	Alkalinity	Mg/ltr	200.00	116.0	IS:3025, (part-23) 2014
5	Acidity	Mg/ltr		10.0	IS:3025, (part-22) 2014
6	Total hardness (as CaCO <sub>3</sub> )	Mg/ltr	300.00	118.0	IS:3025, (part-21) 2014
7	Calcium (as CaCO <sub>3</sub> )	Mg/ltr	75.00	84.0	IS:3025, (part-40) 2014
8	Magnesium (as CaCO <sub>3</sub> )	Mg/ltr	30.00	34.0	APHA 22 <sup>nd</sup> Edition -3500mg B
9	Chloride	Mg/ltr	250.00	60.0	IS:3025, (part-32) 2014
10	Sulphate	Mg/ltr	200.00	16.82	APHA 22 <sup>nd</sup> Edition-4500 So, 2
11	Residual free chlorine	Mg/ltr	0.20	0.10	IS:3025, (part-26) 2014
12	Iron	Mg/ltr	0.30	1.78	IS:3025, (part-53) 2014
13	Nitrate	Mg/ltr	45.00	0.21	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		19.89	IS:3025, (part-35) 2014
16	Temperature	°C		24.1	IS:3025, (part-9) 2006

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

### Declaration:-

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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)

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 : 02.09.2020 & 4PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : SEP/ CPP/GW/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 : 02.09.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 04.09.2020
Testing Condition : 24.8°C, 62 %RH	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC54042000000574F	Date of Report : 25.09.2020

**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	0.29
5	Manganese	Mg/ltr	0.10	0.039
6	Mercury	Mg/ltr	0.001	<0.0005
7	Lead	Mg/ltr	0.01	<0.005
8	Zinc	Mg/ltr	5.00	2.44

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

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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 SURFACE WATER

### Sample Details

### Client Details

Date & Time of Sampling : 09.09.2020 & 3:30PM	Client Name : Usha Martin Limited (PENGK Div)
Sample ID : SEP/STW/ CPP/12	Client Address : Tatisilwai, Ranchi
Type of Sample : STORM WATER (SURFACE WATER)	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Anil kr. pradhan	Date of Receipt of Sample : 09.09.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 10.09.2020
Testing Condition : 24.3°C, 58%RH	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC54042000000578F	Date of Report : 25.09.2020


### REPORT


Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		6.50 to 8.50	6.10	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr	500.00	58.4	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	14.0	IS:3025, (part-23) 2014
5	Acidity	Mg/ltr		18.0	IS:3025, (part-22) 2014
6	Total hardness (as CaCO <sub>3</sub> )	Mg/ltr	300.00	16.0	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	4.0	APHA 22 <sup>nd</sup> Edition -3500mg B
9	Chloride	Mg/ltr	250.00	6.0	IS:3025, (part-32) 2014
10	Sulphate	Mg/ltr	200.00	2.05	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	< 0.075	IS:3025, (part-53) 2014
13	Nitrate	Mg/ltr	45.00	0.10	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		0.31	IS:3025, (part-35) 2014
16	Temperature	°C		24.2	IS:3025, (part-9) 2006


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

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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**  
**SURFACE WATER**

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




Date & Time of Sampling : 09.09.2020 & 3:30PM	Client Name : Usha Martin Limited (PENGK Div)
Sample ID : SEP/STW/ CPP/12	Client Address : Tatisilwai, Ranchi
Type of Sample : STORM WATER (SURFACE WATER)	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Anil kr. pradhan	Date of Receipt of Sample : 09.09.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 10.09.2020
Testing Condition : 24.3°C, 58%RH	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC54042000000578F	Date of Report : 25.09.2020

**TEST REPORT**

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Colour	Hazen	5.00	<5.00
2	Odour		AGREEABLE	AGREEABLE
3	Taste		AGREEABLE	NOT AGREEABLE
4	Fluoride	Mg/ltr	1.00	0.019
5	Manganese	Mg/ltr	0.10	0.07
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:-**

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TESTED BY  
(Manish Kumar)  
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(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 : 08.07.2020 & 11:00AM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : JUL/ CPP/DR/10	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 : 08.07.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 09.07.2020
Testing Condition : 25.0°C , 58%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540420000000542F	Date of Report : 28.07.2020

**REPORT**


Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		6.50 to 8.50	6.57	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr	500.00	88.00	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	20.00	IS:3025, (part-23) 2014
5	Acidity	Mg/ltr		4.00	IS:3025, (part-22) 2014
6	Total hardness (as CaCO <sub>3</sub> )	Mg/ltr	300.00	20.00	IS:3025, (part-21) 2014
7	Calcium (as CaCO <sub>3</sub> )	Mg/ltr	75.00	10.00	IS:3025, (part-40) 2014
8	Magnesium (as CaCO <sub>3</sub> )	Mg/ltr	30.00	10.00	APHA 22 <sup>nd</sup> Edition -3500mg B
9	Chloride	Mg/ltr	250.00	22.99	IS:3025, (part-32) 2014
10	Sulphate	Mg/ltr	200.00	2.84	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	0.13	IS:3025, (part-53) 2014
13	Nitrate	Mg/ltr	45.00	1.95	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		3.13	IS:3025, (part-35) 2014
16	Temperature	°C		26.0	IS:3025, (part-9) 2006

**\*\* IS: 10500(2012): Drinking Water Specification**
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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 : 08.07.2020 & 11:00AM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : JUL/CPP/DR/10	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 : 08.07.2020
Sample Plan Reference : UML/DOC/110	Date of testing : 09.07.2020
Testing Condition : 25.0°C , 58%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC54042000000542F	Date of Report : 28.07.2020

### TEST REPORT

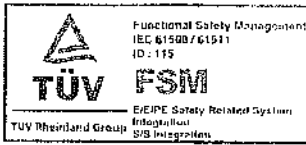
Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Colour	Hazen	5.00	<5.00
2	Odour		AGREEABLE	AGREEABLE
3	Taste		AGREEABLE	AGREEABLE
4	Fluoride	Mg/ltr	1.00	0.015
5	Manganese	Mg/ltr	0.10	0.033
6	Mercury	Mg/ltr	0.001	<0.0005
7	Lead	Mg/ltr	0.01	<0.005
8	Zinc	Mg/ltr	5.00	<0.400

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

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TESTED BY  
(Manish Kumar)CHECKED BY  
(Tanmay Roy)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

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, JATISILWAI, RANCHI, JHARKHAND
DATE	March 26, 2015
PURPOSE OF THE MEETING	Addition of new tags for remote transmission & monitoring on CPCB site
W.O.	

CUSTOMER		PARTICIPANTS		YOKOGAWA	
Mr. M.S. Mandal				Mr. Dhirender Dagar	
Mr. V. Kumar				(Yokogawa India Ltd)	
				MOB. -9996952300	

SLNO	DESCRIPTION	ACTION BY	REMARKS																		
1	M/s YIL Engineer visited the site on 26-03-15 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%; border-collapse: collapse; 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 STSS</td> <td>0-1000</td> <td>mg/ltr</td> </tr> <tr> <td>4 BIT1312</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 STSS	0-1000	mg/ltr	4 BIT1312	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 STSS	0-1000	mg/ltr																			
4 BIT1312	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 26/03/2015 after completing above activities.	M/S YIL																			

 CUSTOMER	 YOKOGAWA
---	---



*Handwritten signature*



**Yokogawa India Limited**

Regd. Office :  
Plot No. 96,  
Electronics City, Hosur Road  
Bangalore - 560 100. India  
Tel : 0091-80-41586000  
Fax : 0091-80-28521445

**YOKOGAWA**

To,

Date:24/12/2013

Usha Martin Ltd.  
(Wire Ropes and Specialty products division)  
Works: Tatisilwal, Ranchi 835103  
Jharkhand,India.

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

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

To whomsoever it concerns

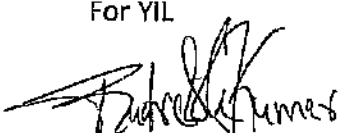
With reference to the above mentioned purchase order, we would like to inform that M/s Yokogawa India Ltd. has successfully completed supply ,supervision, erection and commissioning of emission data connectivity to JSPCB for their verification and evaluation. Pls refer to the Minutes Of Meeting signed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

The performance is found to be satisfactory.

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

Thanking you,

For YIL

  
Mr.B.Rudresh Kumar  
Assistant Manager

# ◆ MINUTES OF MEETING

vigilantplant®

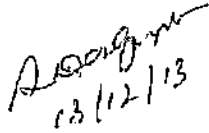

◆ CUSTOMER NAME	◆ M/s Ushamatin ltd		
◆ MEETING LOCATION	◆ Power-Plant- Ranchi		
◆ PURPOSE OF MEETING	◆ Connectivity to JPCB		
◆ MEETING DATE	13-12-2013	◆ SERVICE REQUEST NO	KOL/13/A/CA/31354
◆ P.O. No	20152	◆ P.O. DATE	06/09/2013
◆ 1 <sup>st</sup> VISIT START FROM	14-11-2013	◆ 1 <sup>st</sup> VISIT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

## Member presents on Meeting

<b>FROM UML</b>		<b>FROM YOKOGAWA</b>
Mr Arindam Dasgupta		Mr Prabir Mandal
		Mr. Abhishek Dutta

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

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

 13/12/13 <b>M/s UML</b>	 13/12/13 <b>M/s YIL</b>
---	--

**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, Durgam, 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**

**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 Jageslwar

Sub : To submit Completion Report on Rain Water Harvesting Plan

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

Dear Sir,

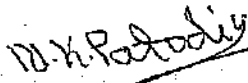
Further to our above letter (ref. No. UML/PP/EMS/GWD/RWH/12/01 dtd. 03/05/2012), we would like to place following facts before your good self for kind information :

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)

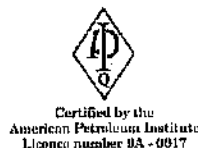
  
(NK Patodia)

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  
License number IA - 0017

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



Usha Martin Ltd.  
2\*10MW CPP,Ranchi

**FLY ASH GENERATION & UTILISATION REPORT (PERIOD: April'20 to Sept'20)**

<b>2*10 MW Captive Power Plant, Usha Martin Ltd, Tatisilwai, Ranchi</b>							
<b>SOLID WASTE/FLY ASH GENERATION &amp; UTILIZATION</b>							
MONTH	QTY GENERATED (MT)	QTY UTILIZED (MT)			UNUTILIZED (MT)	UTILIZATION IN % *	Balance in Ash Dyke (MT)
		UTILIZED IN OWN FLY ASH BRICK PLANT (MT)	3RD PARTY UTILIZATION (MT)	TOTAL (MT)			
APR'20	3759.16	0	95.76	95.76	3663.4	2.5	6675.89
MAY' 20	4286.19	0	4554.66	4554.66	-268.47	106.3	2744.02
JUN' 20	4325.49	0	4664.97	4664.97	-339.48	107.8	2673.01
JUL' 20	5588.41	0	7230.5	7230.5	-1642.09	129.4	1370.4
AUG' 20	3987.48	0	5551.53	5551.53	-1564.05	139.2	1448.44
SEPT' 20	4891.53	0	5516.75	5516.75	-625.22	112.8	2387.27

**\*\* THE EXCESS UTILIZATION IS ACHIEVED BY UTILIZING DUMPED FLY ASH FROM ASH DYKE IN CPP.**

## 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 15 Villages (apart of 03 villages which are the part of the panchayat) 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 & 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



**Foods distribution during Covid-19 for poor and needy villagers.**

### Natural Resource Management Activities:

- For promotion of organic farming we have promoted **NADEP compost (03) & Compost pit (49), Low cost vermi compost (06) 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 (17) 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 2020-21 and we provided seeds to **53** New SWI farmers.

- **We have Linked 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. **Training 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 (04) Jal miner are being constructed in the Mahilong and Angara village for more than 200 households.
- Crop Insurance is required for rainy day thus, we encouraged farmers for crop insurance to have compensation if any adversity happen to crop.
- Usha martin Foundation distributed pigeon pea to 46 farmers, pea seed to 74 farmers and paddy seeds distributed among 24 villagers



## Health



- We initiated special drive for Coron Test with the support of Namkom Block and during these Test Camp, Total 1144 persons were examined. We distributed bleaching

powder among 1033 households of all the 15 villages. We have distributed Masks, gave sanitizers and disseminated the messages of Social Distance among the villagers through door to door campaign and small groups meeting.

- During this six month period we have done **medical camps for distributing medicine/ dissemination of Covid-19** along with 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.
- **Eighteen (18) 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 54 immunization program through logistic as well as technically.
- We have not **organized school health session in government schools due to Corona**. The children are made aware about personal hygiene, hand washing techniques, prevention from different diseases etc.



- Awareness drive about **COVID-19** have initiated in haratu, Ara, Chatra, Hesal, Angara, Silwai villages to address the issue among community.



- As under Swachh 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.
- **Total Thirty Three (33)** village Health committee meeting were attended and given suggested.

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



**Dy Pramukh along with CSR team for dissemination upon Covid-19 among villagers of Tati, Silwai,**

- In the villages **Fifty Seven (57)** 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** were regularly organized in **15 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. **However, these activities were carried out as per guideline of Covid-19.**
- 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. **No Training due to Corona**

- **Mushroom Cultivating Training- 03 (60 person) Nos.**

- Soil Test training- 04 nos.

- Fishery training - 07 nos.

[Garlic cultivation by Bhaktu Toppo of Ara village](#)



### **Educational Activities:**

- Covid-19 has affected the ongoing educational activities during this six months period. However we have doing CSR initiative through one Gurukul School, which is situated at nearby factory. We take care of poor children and those who are unable to give fee.



## 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 32 SHGs / women groups**
- **Kitchen Garden with 148 Household for nutritious vegetable / fruits.**
- **Fishery with 101 groups of farmers. Not new in this six month.**
- **Social Forestry in 18 persons/ groups**
- **Artificial insemination of Cattle -cow/ buffalo**



- **Deep Irrigation-00**
- **Goatry training with 00 Household**
- **Jal Miners with Solar Energy -04 (Govt.) 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.**

**Tijen Devi of Masu doing mushroom farming**

## **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 ---- 03 Nos.
- SHG meeting-----28 Nos.
- Training on SRI----- 11 Nos.
- Village Health Committee meeting ----- 33 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----- 05 No/ Families
- Ujjawal Gas-----05 Families
- Old Age Pension ----- 12 Families
- Widow Pension -----04 Families
- Handicapped Pension's pension----- 01 Nos.
- Red Ration Card-----05 Households
- Exposure Visit of Farmers ----- 10 Nos.
- Pond Construction ----- --04 Families

**Photo Gallery:**

**Figure- 1: Medical Camp during Covid- 19 to support the villagers, at Mahilong**



**Figure- 2: Food distribution in villages**



**Figure- 3: Fish Jeera were given to villagers**



**Figure- 4: Environment Day Celebration**



**Figure- 4: Covid -19 Publicity**



**Figure- 5: Giloy plants given to villages in the presence of MLA Sh. Rajesh Kachchap, Silwai**



**Figure-6: Sport items distributed among youth of various villages**



Figure-1: Paper Clipping

# सिटी एक्टिविटी

## उषा मार्टिन की मुहिम, नौ गांवों में बांटी गयी खाद्यान्न सामग्री



**रांची.** उषा मार्टिन कोरोना संकट में कारखाने के ईद गिर्द के गांवों के जरूरतमंदों के बीच खाद्यान्न वितरण कर रही है. 10 दिनों से चलने वाली इस मुहिम में नौ गांवों में गरीब ग्रामीणों, विधवा और विकलांगों में खाद्यान्न सामग्री का पैकेट बांटा गया. इस दौरान सैनिटाइजेशन, सोशल डिस्टेंसिंग का ख्याल रखा गया. प्लांट के एचआर हेड निपेंद्र नाथ झा ने टाटी पूर्वी पंचायत के आंगनबाड़ी सेंटर में विधवा और बुजुर्गों को खाद्यान्न पैकेट दिये. उन्होंने कहा कि उषा मार्टिन सीएसआर के माध्यम से इस संकट में ग्रामीणों को हरसंभव मदद कर रही है. लोग मनोबल बनाये रखें और सरकार के दिशा-निर्देशों का पालन करें.

### जनप्रतिनिधियों ने की इस प्रयास की तारीफ

नामकुम प्रखंड की उपप्रमुख माधुरी देवी ने कहा कि कोरोना संकट में उषा मार्टिन का सहयोग सराहनीय है. साथ ही कंपनी स्वास्थ्य जागरूकता

### ग्रामीणों से लगातार संपर्क में है कंपनी

सीएसआर हेड डॉ मयंक मुरारी ने बताया कि कंपनी लगातार ग्रामीणों के साथ संपर्क बनायी हुई है. इनकी समस्याओं को दूर करने का प्रयास किया जा रहा है. इस दौरान टाटी पश्चिम में सरपंच शैलेश मिश्रा, टाटी पूर्वी में मुखिया किरण पाहन, चतरा में किस्टो पाहन, सिलवई में सीएसआर प्रतिनिधि मोनीत बूतकुमार, महिलौंग के बड़कुंबा में रीशन लिंडा, हाहे में लालदेव महतो, सिलवई के उलातु टोला में भुवनेश्वर महतो एवं अनगड़ा के बैजनाथ टाटी के बिरहोर टोला में लालदेव महतो द्वारा सामग्री का वितरण किया गया.

एवं बचाव के लिए भी लगातार मेडिकल कैंप लगा रही है. मास्क और सैनिटाइजर बांटे जा रहे हैं. टाटी पूर्वी में 20 से अधिक ग्रामीणों में चावल, आटा, तेल, दाल और मशाला का वितरण किया गया.

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लं  
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धु  
वि  
खु  
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सं  
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Figure-2: Paper Clipping

## 800 ग्रामीणों को दी दवा



**रांची.** अभी होमियो क्लिनिक, वाइबीएन यूनिवर्सिटी तथा उषा मार्टिन के सहयोग से सीएसआर के तहत महिलौंग पंचायत में होमियोपैथी का मेगा मेडिकल कैम्प का आयोजन किया गया. इसमें 800 ग्रामीणों के बीच कोरोना संक्रमण से बचने के लिए आर्सेनिक एल्बा दवा दिया गया. अभी होमियो क्लिनिक ने ग्रामीणों के बीच 500 से अधिक मास्क का भी वितरण किया गया. अभी होमियो क्लिनिक के डॉक्टर डॉ राजीव कुमार ने कहा कि होमियोपैथी में कोरोना वायरस से बचाव संभव है.

इस दवा का महीने में एक बार लगातार तीन सुबह चार गोली खाली पेट लेना है. वाइबीएन यूनिवर्सिटी के चेयरमैन रामजी यादव ने कहा कि होमियोपैथी में लाइलाज बीमारी का इलाज संभव है. उषा मार्टिन सीएसआर के डॉ मयंक मुरारी ने कहा कि ग्रामीण विकास की दिशा में स्वास्थ्य एक अहम कड़ी है. मौके पर महिलौंग की मुखिया सुजाता मिंज, सरपंच राजेंद्र महतो, जिला परिषद सदस्य फूल कुमारी देवी, सविता देवी, भुवनेश्वर महतो, काशी महतो, रवि कुमार आदि मौजूद थे.

Sat, 06 June 2020  
प्रभात खबर <https://epaper.prabhatkhabar.com>



Figure-3: Paper Clipping

## उषा मार्टिन ने मछली का जीरा वितरित किया



हेसल गांव के विष्णु महतो और उनके समूह के बीच वितरण किया गया.

**रांची.** उषा मार्टिन द्वारा सीएसआर के तहत शनिवार को हेसल गांव के विष्णु महतो और उनके समूह के बीच 30 पैकेट मछली का जीरा सरकारी विभाग के सहयोग से निःशुल्क वितरित किया गया. इसके अलावा सात अन्य ग्रामीणों को भी जीरा का बीज एसपीडी गेट पर दिया गया.

इसमें छह लाभुक या उसके परिवार के लोग कंपनी में कार्य करते हैं. लाभुकों में आरा के राजेश तिग्गा, महिलौंग के लक्ष्मण गाड़ी, किस्टी

टोण्डो, हेसल के रामेश्वर महतो, गणेश महतो, मनोज महतो, महेश्वर महतो आदि शामिल थे. कारखाना के एचआर हेड नुपेंद्र नाथ झा ने कहा कि कंपनी सीएसआर के माध्यम से ग्रामीणों की आजीविका बढ़ाने का प्रयास कर रही है. इसमें मछली पालन की अहम भूमिका है. इस अवसर पर सेफ्टी ऑफिसर केके सिन्हा के अलावा सीएसआर के भुवनेश्वर महतो, लालदेव महतो, राशन लिंडा आदि उपस्थित थे.

Sun, 28 June 2020  
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Figure-4: Paper Clipping



## उषा मार्टिन ने राशन उपलब्ध कराया

**रांची.** उषा मार्टिन ने सीएसआर के तहत कोविड 19 में लॉकडाउन से प्रभावित प्रवासी मजदूरों की सहायता की है. श्रम विभाग के साथ मिलकर कंपनी ने नामकुम स्थित जोरार बस्ती में रह रहे 14 से अधिक प्रवासी मजदूरों के भोजन के लिए चावल, आटा, चीनी, चाशपत्ती, मशाला एवं अन्य सुविधाओं की आपूर्ति की है. इसके अलावा गरीब मजदूरों को सहयोग किया जा रहा है. इस दौरान कंपनी के प्रबंधक थॉमस वर्गीज तथा श्रम विभाग के सुभाष मेहता उपस्थित थे. यह जानकारी डॉ मयंक मुरारी ने दी.

Sun, 26 April 2020  
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Figure-05: Paper Clipping

**ब्रीफ न्यूज**



**उषा मार्टिन ने सब्जी विक्रेताओं में बांटे मास्क**

**रांची** उषा मार्टिन द्वारा टार्टसिलवे बाजार में सभी सब्जी विक्रेताओं के बीच मास्क का वितरण किया गया और सभी को सैनिटाइज किया गया. उषा मार्टिन द्वारा सीएसआर के तहत मास्क मुहैया कराया गया. इस दौरान स्वास्थ्य विभाग के कर्मियों द्वारा मास्क के उपयोग की जानकारी भी दी गयी. उप प्रमुख माधुरी देवी के नेतृत्व में लोगों को कोरोना के बारे में जागरूक किया गया. उषा मार्टिन के डॉ मयंक मुरारी ने लोगों को खुद ही स्वास्थ्य के प्रति गंभीर रहने की बात कही. कार्यक्रम में स्वास्थ्य विभाग की सावरा खातून, मुखिया किरण देवी, हरानू की सहिया सविता देवी, महिला समिति की कलावती देवी आदि उपस्थित रहे. सीएसआर से भुनेश्वर महतो, लालदेव महतो, रौशन लिंडा व अन्य थे.

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Figure-06: Paper Clipping

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**उषा मार्टिन ने किसानों को मत्स्यपालन से जोड़ा**



**रांची | उषा मार्टिन ने सीएसआर के तहत 25 किसानों को मछली का जीरा वितरित किया। सीएसआर हेड डॉ. मयंक मुरारी ने बताया कि अभी तक कंपनी की ओर से 75 किसानों को मत्स्यपालन से जोड़ा जा चुका है। किसानों को पहले चरण में मत्स्य पालन का प्रशिक्षण दिलवाया गया है।**

Figure-07: Paper Clipping

**उषा मार्टिन ने 25 किसानों को मछली पालन से जोड़ा**

**लाइफ रिपोर्ट @ रांची**

उषा मार्टिन ने सीएसआर के तहत कारखाने के इंद-गिर्द के गांवों के 25 किसानों के बीच मछली का जीरा वितरित किया. किसानों के आर्थिक सहयोग और झारखंड सरकार के मत्स्य विभाग के सौजन्य से ग्रामीणों के बीच मछलीपालन के माध्यम से आजीविका संवर्द्धन का अभियान चलाया जा रहा है. यह जानकारी सीएसआर के हेड डॉ मयंक मुरारी ने दी. उन्होंने बताया कि अभी तक कंपनी 75 ग्रामीण किसानों को मछली पालन से जोड़ चुकी है. पिछले साल 40 किसानों को मत्स्य पालन से जोड़ा गया था. झारखंड सरकार के मत्स्य विभाग के सौजन्य से इन किसानों को पहले चरण में



**मछली जीरा वितरित करते डॉ मयंक मुरारी .**  
 मत्स्य पालन का प्रशिक्षण दिया गया.  
 प्रगतिशील किसानों को मछली पालन की

बारीकियां बतायी. इसके बाद प्रशिक्षण लेने वाले किसानों को मछली पालन के लिए जीरा, मछली पकड़ने का जाल और खान की सामग्री मुहैया करायी गयी थी. हेसल के विष्णु महतो ने कहा है कि किसान के आर्थिक सहयोग के माध्यम से मछली का जीरा मुहैया कराने में सीएसआर विभाग ने बेहतर समन्वयन किया है. हेसल के बिरसा उरांव को आठ पैकेट मछली का जीरा दिया गया. रामेश्वर महतो और मनोज महतो को छह पैकेट, टाटी पूर्वी के पप्पू मिश्रा को एक पैकेट, महिलाओं के रानू कुजूर को पांच पैकेट, बड़ाम के राजेश टोप्पो को तीन पैकेट मछली का जीरा दिया गया. सीएसआर के भुवनेश्वर महतो और लालदेव महतो ने कार्यक्रम का समन्वयन किया.

Tue, 07 July 2020  
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Figure-08: Paper Clipping

# सिटी एक्टिविटी

## नकदी फसल से किसानों को जोड़ रहा उषा मार्टिन



उषा मार्टिन की ओर से किसानों के बीच बीज वितरित किया गया.

लाइफ रिपोर्ट @ रांची

उषा मार्टिन फाउंडेशन की ओर से ग्रामीण किसानों को कोरोना काल में वैकल्पिक आय के लिए नकदी फसल से जोड़ा जा रहा है. कंपनी के सुपरवाइजर गांव-गांव जाकर प्रगतिशील किसानों का चयन कर उनको मटर, अरहर और सब्जी लगाने के लिए प्रेरित कर रहे हैं. नकदी फसल के लिए 74 किसानों के बीच मटर का बीज वितरित किया गया है. इसके अलावा 46 किसानों के बीच अरहर के बीज भी वितरित किये गये.

नामकुम प्रखंड की उप प्रमुख माधुरी देवी ने कहा कि किसानों को परंपरागत खेती से अलग नकदी फसल की ओर ज्यादा जोर देना चाहिए, उषा मार्टिन के माध्यम से प्रगतिशील किसानों का चयन एवं उनको प्रोत्साहन एक सराहनीय कदम

है. बीज वितरण का यही उपयुक्त समय है. इससे किसानों का फसल सही समय पर तैयार होगा और बिक्री से बेहतर लाभ का अर्जन होगा. उषा मार्टिन के आरके जायसवाल ने कहा कि कंपनी के माध्यम से गांव के किसानों एवं ग्रामीणों के लिए सम्यनुकूल कई प्रयास किये गये हैं. ये प्रयास आगे भी जारी रहेंगे ताकि किसानों को वैकल्पिक आय का अवसर प्राप्त हो सके. कारखाने के इंद-गिर्द के गांवों में 50 किलो मटर का बीज वितरित किया गया. इन गांवों में आरा, टाटी पूर्वी, हरतू, महिलौंग, सिलवई, चतरा, मासू, हेसल, अनगड़ा, बेडवारी, लापुंग, जानुम और हाहे शामिल हैं. इस अवसर पर 100 से अधिक प्रगतिशील किसान मौजूद थे. कार्यक्रम का समन्वय भुवनेश्वर महतो, मनीत बूतकुमार, रौशन लिंडा एवं लालदेव महतो ने किया.

Figure-09: Paper Clipping

## ग्रामीण युवाओं के बीच उषा मार्टिन ने खेल सामग्री वितरित की



रांची. उषा मार्टिन फाउंडेशन की ओर से कारखाना के इंद-गिर्द के ग्रामीण युवाओं को खेलकूद से जोड़ने के लिए खेल सामग्री का वितरण किया गया. गांव के युवाओं के लिए फुटबॉल, बॉलीबॉल और नेट के साथ लड़कियों के लिए स्कीपिंग रोप एवं कैरमबोर्ड दिये गये. विभिन्न गांवों के जनप्रतिनिधियों की उपस्थिति में खेल सामग्री दी गयी.

नामकुम प्रखंड की उपप्रमुख माधुरी देवी ने कहा कि उषा मार्टिन का युवाओं को खेलकूद से जोड़ने का अभियान काबिलेतारीफ है. इससे गांव के लड़के और लड़कियां स्वस्थ शरीर के लिए खेल को बढ़ावा देंगे. महिलौंग पंचायत प्रतिनिधि राजेंद्र महतो ने कहा कि गांव की लड़कियां

कैरम बोर्ड एवं स्कीपिंग रोप के अलावा वॉलीबॉल का उपयोग कर बेहतर शारीरिक एवं मानसिक विकास कर सकेंगी. आरा के मुखिया विजय टोप्यो ने कहा कि आरा पंचायत में खेल सामग्री का उपयोग सभी युवाओं के लिए होगा. यूनियन प्रतिनिधि शंकर महतो ने कहा कि उषा मार्टिन ग्रामीण विकास से युवाओं को जोड़ने का काम कर रही है. यह एक अच्छी पहल है. सिलवई के उपमुखिया अरविंद लोहरा ने प्रबंधन को सहयोग के लिए धन्यवाद दिया. फाउंडेशन की ओर से 18 फुटबॉल, पांच वॉलीबॉल, चार कैरमबोर्ड एवं 21 स्कीपिंग रोप को चतरा, बेडवारी, टाटी, हरतू, महिलौंग, लालगंज, उलातू और आरा पंचायत में दिया गया.



# 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



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# 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



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

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

**Report Prepared by**



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## 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.



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## 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.

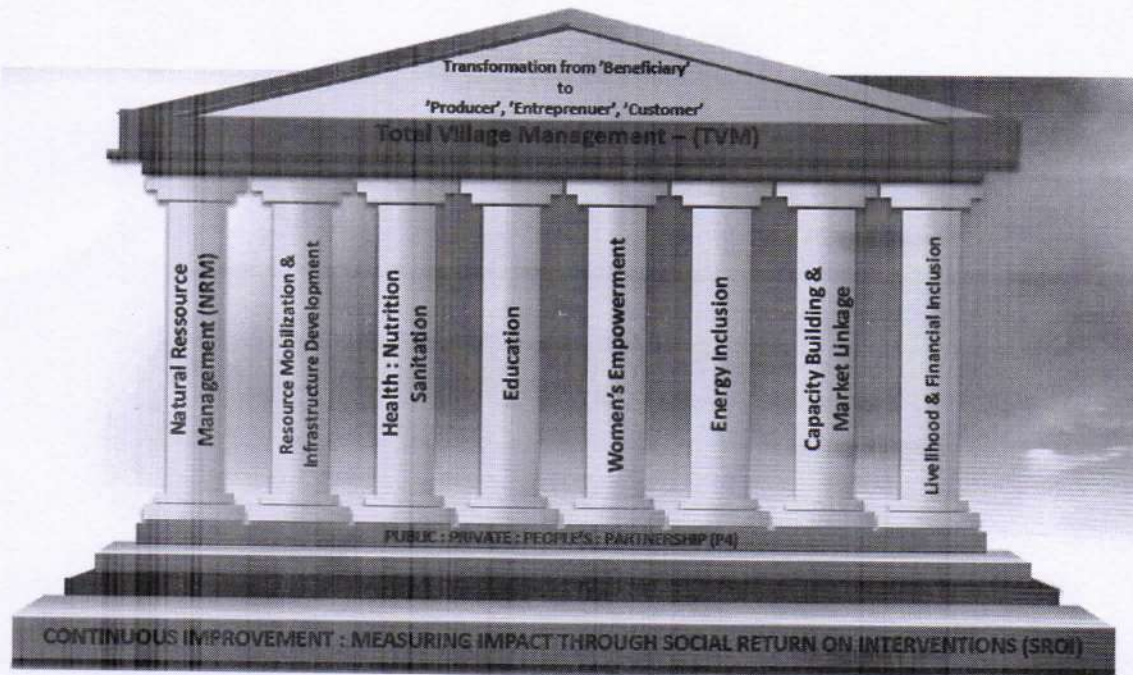
KGVK drew relevance from its core expertise where multiple skills in diverse domains were brought together in a unifying methodology. In 2008, this culminated into the Founders of Usha Martin and KGVK developing an integrated approach through Total Village Management model (“TVM”). The TVM model is a 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**

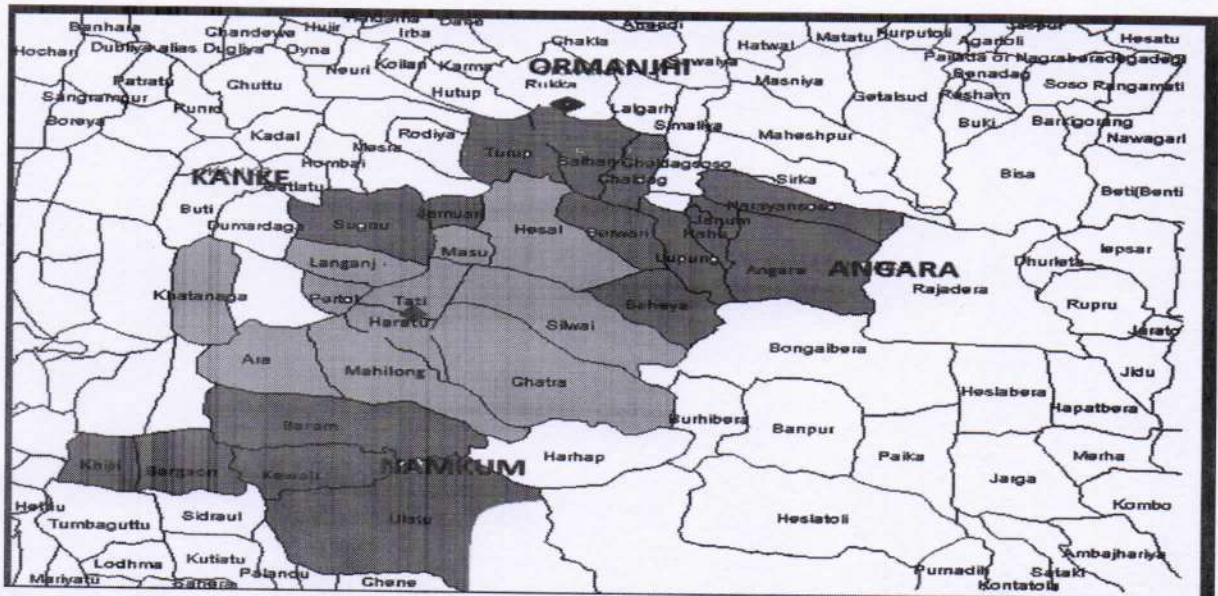
This report consists of three chapters. First chapter gives an overall idea about the scope of social audit for CSR projects. The second chapters provide a proper social audit framework for projects respectively. Finally chapter three provides recommendations and suggestions separately with a notion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



Map showing Operational area (Marked in dark brown)

### Logical Framework Analysis

Sr. No	Thematic	Activity Performed	Governance
1	Natural Resource Management	<ul style="list-style-type: none"> <li>Valley land wells are being used - 61 nos.</li> <li>Irrigated area increased by - 120acres</li> <li>15 drip irrigation promoted in 30 acres of land.</li> <li>New hand pump installation- 07</li> <li>Hand pump repair- 112</li> <li>New Well – 11 ( Low land well)</li> <li>New Jal Miner- 10 ( with Solar Panel)</li> <li>New pond-05</li> <li>Cattle shed construction -46 (Ara, Mahilong, Haratu, Tati, Silwai, Chatra, Masu, Hesal, angara</li> <li>80 RSP's has been selected / trained for Paddy cultivation.</li> <li>SRI Awareness campaign, meetings carried out.</li> <li>2035 SRI plantation have been done in 21 Villages in FY 16-17.</li> <li>192 Farmers initiated SRI First time in 2017.</li> <li>Social Forestry with 33 groups/ village SHG.</li> <li>02 Organic manure to add nutritive value to cattle feed.</li> <li>36 Vermi compost pit constructed to encourage organic farming</li> <li>61 NADEP prepared and 131 Compost pit constructed</li> </ul>	<p>UML currently has fully articulated vision and mission of its programme. This mission and vision has led to proper strategic planning. This approach has not yet deterred the overall potential impact of the programme. Recognized problems and issues have also been solved and hence, an incremental high that would have ideally been observed in the programme is not missing. It was clearly expressed the internal rules guiding how the project will be executed. Many of those rules are considered to be functional guidelines and have led to the programme execution to be at peak level and not inconsistent with the prescribed regulations. Agriculture as a household occupation has substantially improved and increased in most of the villages. The introduction of new crops and increase in area under cultivation has resulted in</p>

			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 in13 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>
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			<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 able 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	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.  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.
		Crop Insurance	306	
		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

**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 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. ✓ *Pls 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

*27 APR 2011*  
Ranchi Municipal Corporation  
Ranchi

*27/4/11*  
D.I.C  
Ranchi  
Zila Parishad  
Ranchi



**Jharkhand State Pollution Control Board**  
Ranchi



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



Certified as an approved  
Manufacturer by  
Det Norske Veritas



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



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



# Usha martin Limited, 2X10 MW CPP

## Display Board at CPP main Gate





**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



**USHA MARTIN LIMITED**  
**WIRE ROPES & SPECIALITY PRODUCT DIVISION**

Form No: UM-L4-PUR-007  
 ISSUE -2 , REV-0 , DT. - 01.06.2016

Tatisilwai Tatisilwai Ranchi , Jharkhand , India , 835103 .

Tel.No: ( 0651 ) 7180412/435/438/558/5 FAX No: ( 91-0651 ) 7180409/410 Website: www.ushamartin.com

<b>Vendor Code</b> : 1302911001	<b>Order No</b> : 4512004268	<b>Date</b> : 02.11.2020
<b>Vendor Name</b> : LIFECARE DIAGNOSTIC CENTRE	<b>Amendment No</b> : 0	<b>Date</b> :
<b>Vendor Address</b> : POWER HOUSE CHOWK MIDDLE CHUTIA RANCHIRANCHI,Jharkhand,834008	<b>Offer/Ref No</b> : L-4512003335	<b>Date</b> : 18.01.20
<b>Vendor Contact</b> : 651-2461165/9835141441	<b>Validity Start / End</b> : 03.11.2020 / 31.12.2020	
<b>Vendor Email</b> : LIFECARERANCHI@GMAIL.COM	<b>PO Category</b> : Service	<b>Curr.</b> : INR
<b>Contact Person</b> :	<b>Buyer Name</b> : Manoj Kumar	
<b>GSTIN (Invoicing Party)</b> :	<b>Buyer Contact</b> : 0651-7180558	
<b>GSTIN (Main)</b> : 20ANHPR0733MIZI	<b>Buyer Email</b> : manoj_kumar@ushamartin.co.in	
<b>Vendor Type</b> : Registered	<b>TIN No</b> : 20650100392	
<b>PAN No</b> : ANHPR0733M	<b>GSTIN of Business Party</b> : 20AAACU2339M3ZF	
<b>MSME Reg. No.</b> : Not Applicable		

PLEASE SUPPLY THE FOLLOWING AS PER OUR TERMS & CONDITIONS MENTIONED OVERLEAF,. NON-ACKNOWLEDGEMENT OF THIS ORDER WITHIN 7 DAYS WILL BE CONSIDERED AS ACCEPTED BY YOU.

Line Item	Service Code	Service Description	UoM	Qty.	Price	Discount Value	Delivery Date	Basic Value	Net Value
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10		ANNUAL MEDICAL CPP	AU	1.000			22.10.2020		128,000.00
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**Line text**

10/10	3200000441	PULMONARY FUNCTION TEST	NO	200.000	180.00	0.00	22.10.2020	36,000.00	
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**HSN / SAC Code:**

**Service Type**

**Long Text** Computer based Pulmonary Function Test. Reports should be signed by Pulmonologist.

**Po text**

10/20	3200000444	AUDIOMETRY	NO	200.000	200.00	0.00	22.10.2020	40,000.00	
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**HSN / SAC Code:**

**Service Type**

**Long Text** "Both bone and air conduction studies for the following pure tone frequencies: 125, 250, 500, 1000, 2000, 3000, 4000, 8000 Hz. Test should be performed by an Audiometrist and report should be signed by an ENT Specialist.  
"

**Po text**

10/30	3200000443	LAB TEST II	NO	200.000	260.00	0.00	22.10.2020	52,000.00	
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**HSN / SAC Code:**

**Service Type**

**Long Text** a)TC, DC, ESR; b)Hb%; c)Random Blood Sugar; d)Serum Creatinine; e)Serum Bilirubin (Total & Direct); f)Blood Grouping

**For Usha Martin LTD.**

*G. D. Datta*  
 AUTHORISED SIGNATORY

This is computer generated Purchase Order does not require signature.

Regd. Office: 2A,SHAKESPEAR SARANI, KOLKATA-700071 PHONE:(009133)39800300, FAX:(009133)39800400/500

**USHA MARTIN LIMITED**  
**WIRE ROPES & SPECIALITY PRODUCT DIVISION**

PO No : 4512004268  
 PO Date : 02.11.2020

Tatisilwai Tatisilwai Ranchi , Jharkhand , India , 835103 .

Tel.No: ( 0651 ) 7180412/435/438/558/5 FAX No: ( 91-0651) 7180409/410 Website:

Line Item	Service Code	Service Description	UoM	Qty.	Price	Discount Value	Delivery Date	Basic Value	Net Value
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Po text

Total Value (in INR) 128,000.00 128,000.00

**Total Order Value: 128,000.00**

Total Value in Words: ONE HUNDRED TWENTY-EIGHT THOUSAND RUPEES ZERO PAISA

Header Text : PR - 1302911001 , RELATED TO CPP

REMARKS:-

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1. YOU WILL MAKE AVAILABLE THE REQUIRED TESTING MACHINES ALONG WITH TECHNICIAN FOR ABOVE CHECKING AT OUR CLINIC AT TAISILWAI, RANCHI DURING THE TESTING PERIOD ON MUTUAL AGREED DATES.

OUR HR TEAM WILL BE COORDINATE YOU FOR PROPER EXECUTION OF JOB.

2.YOU HAVE TO KEEP DETAILS OF OUR EMPLOYEE WITH THEIR NAME, PIN (PERSONAL INDEX NUMBER), DEPT. ETC. REQUIRED DETAIL BE WILL PROVIDED TO YOU ON TIME.

3.THE ABOVE GIVEN QTY. IS TENTATIVE.  
 PAYMENT WILL BE MADE ON ACTUAL NUMBER OF TESTING AS CERTIFIED BY OUR CONCERN DEPT.

4.NO GST WILL BE APPLICABLE FOR ABOVE HEALTH CHECKUP TESTING.

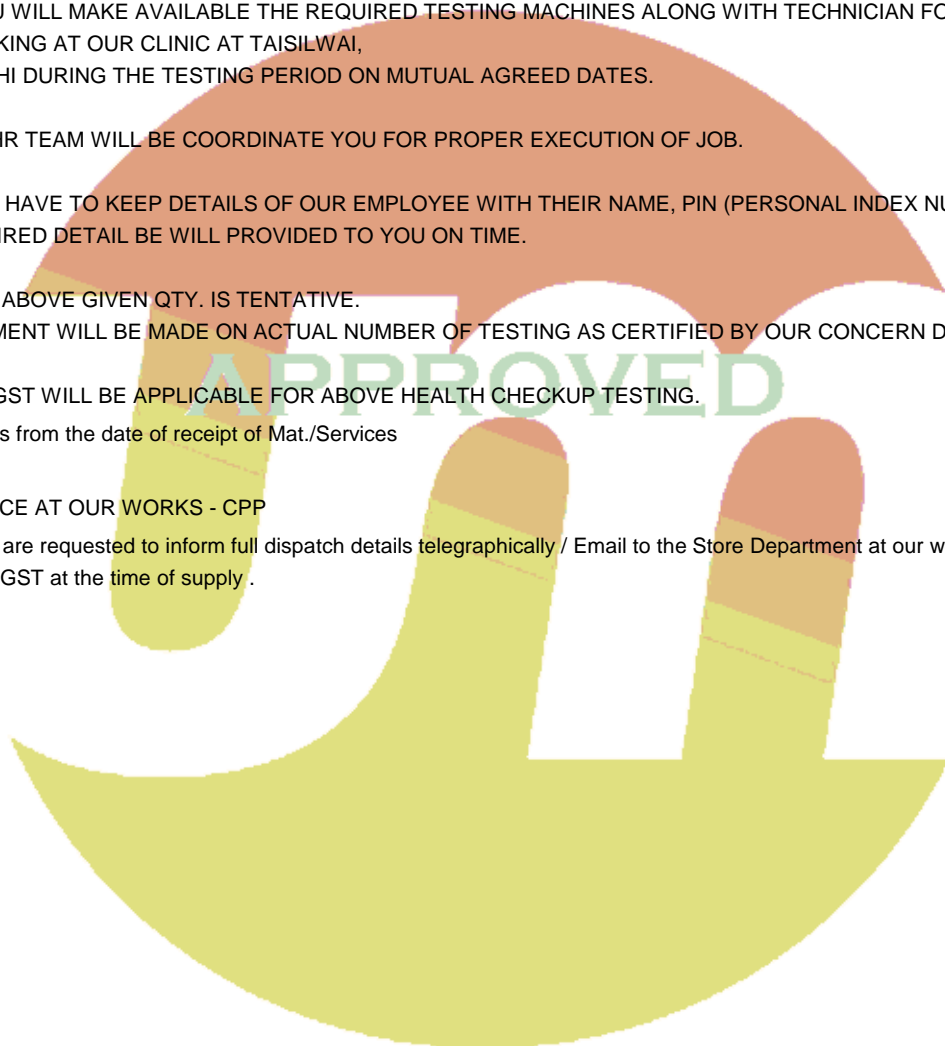
Payment Terms : 30 days from the date of receipt of Mat./Services

Inco Terms : SOW


Incoterm Condition : SERVICE AT OUR WORKS - CPP

Dispatch intimation to Store : You are requested to inform full dispatch details telegraphically / Email to the Store Department at our works.

Please submit Tax Invoice as per GST at the time of supply .



For Usha Martin LTD.



AUTHORISED SIGNATORY

This is computer generated Purchase Order does not require signature.

Regd. Office: 2A,SHAKESPEAR SARANI, KOLKATA-700071 PHONE:(009133)39800300, FAX:(009133)39800400/500

# **STANDARD TERMS & CONDITIONS OF PURCHASE ORDER (INDIGENOUS)**

1. The Validity period for the above work will be as per UML service Order.
2. You must obtain your own PF / E.S.I. Code and have to comply with the provision of relevant acts.
3. You have to comply with the provision of Contract labour R & A Act 1970 and rules made thereunder.
4. Your labours will be covered under the provision of Minimum Wage Act / contract labour R & A Act.
5. You have to maintain necessary registers & records prescribed under various labour. Laws applicable to you.
6. The Service rates are Inclusive / exclusive of all charges will be mentioned in UML Service Order.
7. Total job will be done inside the factory only and you will maintain the records of job done.
8. Required Tools and equipment's for completion of jobs will be supplied by you. All required consumables will be supplied by company after approval of concern dept
9. You will be carrying out the jobs as per the direction of concern dept. of the company.
10. You will be advising the company in advance the name of your employee who will be coming on your be- half inside the factory premises for carrying out the job to enable the company to arrange the gate pass . No person will be allowed to enter the factory premises without proper gate pass.
11. You will ensure the safety of your employees as well as the safety of company property also .You will be solely responsible for all the damages that may be caused to Company equipment & property during the course of execution of the job. Our company representative shall access such damages & value thereof, which shall be recovered from your bill & will be final and binding on you. No disputes what so ever will be entertained on this account.
12. You will also be responsible for the conduct & behavior of your employees while they are inside the factory.
13. You will provide Technical personnel at site for execution of contract job with proper supervision of work within the specified quality / time frame.
14. Company reserves the right to terminate the contract if the workmanship as well as the progress of work are not found satisfactory or for any other dispute.
15. You have to follow the work order /work permit annexure applicable to respective work to ensure safety of employees during work.
16. All Dispute subject to Ranchi Jurisdiction.
17. Other terms & conditions will be as per UML norms.
18. TERMINATION: UML shall have the right to terminate the contract at any time without assigning any reason / notice during validity period.
19. ALTERNATIVE ARRANGEMENTS: If the contractor's fails to fulfill the term & conditions of the Service Oder, UML shall have the right to procure the Service from any other source for execution / completion of the contract and recover from contractor's all charges/expenses/losses/damages suffered by UML, at the risk and cost of the seller after giving 15 days' notice to the contractor. This will be without prejudice to the rights of UML for any other action including termination.
20. BANK CHARGES: Unless otherwise specified, all the Bank Charges at the supplier's end will be to the seller's account.
21. BILLING: Bills shall be sent to Accounts dept. The supplier will also send one set each the authority placing the purchase order and one set to designated consignee in concern person .DUPLICATE COPY OF EXCISE INVOICE (TRANSPORTER COPY) if applicable. SHOULD BE SENT ALONG WITH CONSIGNMENT TO THE CONSIGNEE FOR AVAILING CENVAT.
22. WARRANTY: The Service /material shall confirm to specifications for satisfactory performance under normal condition and carry a warranty against any faulty-design, wrong specification, unsatisfactory service / defective materials or bad workmanship for a period of 12 months from the date of putting in to use or 18 months from date of dispatch whichever is earlier.
23. REALISATION OF DAMAGE GOODS: UML shall have the right to realize the value of damage goods / service from supplier in case found defaulty.
24. Other terms & Conditions of the enquiry including agreed variation, if any, to the extent not covered above will also be applicable to this Service Order.
25. You will have to follow norms of HAZRADUS, GREEN ENVIRONMENT & PRESERVE to NATURAL RESOURCE.

## **B. Payment Terms:**

1. Payment will be made after submission of Bill duly approved by concern dept.
  2. Related tax will be deducted as per prevailing govt. rules
  3. GST will be reimbursed as applicable against proper GST Invoice.
  4. You will have to provide Contract License, Pan , ESI, PF & GST Number in your bill / Quotation
26. Any dispute arising out of to this contract shall be referred to arbitration in accordance with the provisions of Arbitration and Conciliation Act, 1996. The language of arbitration shall be English and place of arbitration shall be Kolkata.
27. Environmental safeguard of the premises/work area/ workers to be ensured by the party.
  28. You will follow the applicable environmental Acts, Rules & Regulations and ensure environmental conservation
  29. Please ensure no damage or loss of material (such as spillage, leakage, evaporation, breakage, fall of material) during transportation.
  30. Please ensure PUC along with other legal documents available in vehicle during transportation.
  31. Please ensure to have environmental management system in place in your organization.
  32. Please ensure to follow safety rules and safe practices during manufacturing and transportation of material.
  33. In case of transportation of hazardous material, please ensure to provide a copy of MSDS along with the transporter who shall be informed on MSDS.



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**PATHOLOGY REPORT**

Patient's Name : MR. SUBRATA CHAKRABORTY

Lab No -

Ref By : M.O : USHA MARTIN

Age/Sex : 46/M

Investigation desired : BLOOD

Reporting Date : 07-11-2020

**TOTAL COUNT**

Leucocytes 5,100 /cu mm (N.L 4000-11000)

**DIFFERENTIAL COUNT OF LEUCOCYTES**

Neutrophils :	62 %	(N.L : 40-70 %)
Lymphocytes :	27 %	(N.L : 25-40 %)
Eosinophils :	08 %	(N.L : 02-09 %)
Monocytes :	03 %	(N.L : 02-06 %)
Basophils :	00 %	(N.L : 00- 02 %)

**OTHERS**

Haemoglobin :	13.0 Gms %	Male (N.L : 14-16 gms %)
Erythrocyte Sedimentation Rate : (Westergren 1 <sup>st</sup> hr Reding )	09 mm/hr	Male (N.L : 04-14 mm/1 hr)

**DIABETES SCREEN (BLOOD)**

Blood Glucos (Random ) 133 mg % (N.L : 70 -130 mg % )

**LIVER FUNGION TEST (BLOOD)**

Total Bilirubin	0.93 mg %	(N.L : 0.2-1.0 mg %)
Direct Bilirubin	0.38 mg %	(N.L : 0.2-0.4 mg %)
Indirect Bilirubin	0.55 mg %	(N.L : 0.4-0.8 mg %)

**RENUAL FUNGION TEST**

Serum Creatinine 1.1 mg % (N.L : 0.8 -1.5 mg %)

**BLOOD GROUP : " AB "**

**Rh Typing : POSITIVE**

(Dr.S.B Sinha ,MD (Patho)



**PATHOLOGY REPORT**

**Patient's Name : MR. TANMOY ROY**

**Lab No -**

**Ref By : M.O : USHA MARTIN**

**Age/Sex : 38/M**

**Investigation desired : BLOOD**

**Reporting Date : 07-11-2020**

**TOTAL COUNT**

Leucocytes 6,600 /cu mm (N.L 4000-11000)

**DIFFERENTIAL COUNT OF LEUCOCYTES**

Neutrophils : 58% (N.L : 40-70 % )  
Lymphocytes : 30% (N.L : 25-40 % )  
Eosinophils : 09 % (N.L : 02-09 % )  
Monocytes : 03 % (N.L : 02-06 % )  
Basophils : 00 % (N.L : 00- 02 % )

**OTHERS**

Haemoglobin : 12.0 Gms % Male (N.L : 14-16 gms %  
Erythrocyte Sedimentation Rate : 04 mm/hr Male (N.L : 04-14 mm/1 hr  
(Westergren 1<sup>st</sup> hr Reding )

**DIABETES SCREEN (BLOOD)**

**Blood Glucos (Random ) 99 mg % (N.L : 70 -130 mg % )**

**LIVER FUNGION TEST (BLOOD)**

Total Bilirubin 0.78 mg % (N.L : 0.2-1.0 mg %)  
Direct Bilirubin 0.34 mg % (N.L : 0.2-0.4 mg %)  
Indirect Bilirubin 0.44mg % (N.L : 0.4-0.8 mg %)

**RENUAL FUNGION TEST**

**Serum Creatinine 1.0 mg % (N.L : 0.8 -1.5 mg %)**

**BLOOD GROUP : " O "**

**Rh Typing : POSITIVE**

(Dr.S.B Sinha ,MD (Patho)





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**PATHOLOGY REPORT**

<b>Patient's Name : MR. RAVI KISHOR SRIVASTAVA</b>	<b>Lab No -</b>
<b>Ref By : M.O : USHA MARTIN</b>	<b>Age/Sex : 42/M</b>
<b>Investigation desired : BLOOD</b>	<b>Reporting Date : 07-11-2020</b>

**TOTAL COUNT**

Leucocytes 6,400 /cu mm (N.L 4000-11000)

**DIFFERENTIAL COUNT OF LEUCOCYTES**

Neutrophils :	62%	(N.L : 40-70 %)
Lymphocytes :	26%	(N.L : 25-40 %)
Eosinophils :	09 %	(N.L : 02-09 %)
Monocytes :	03 %	(N.L : 02-06 %)
Basophils :	00%	(N.L : 00- 02 %)

**OTHERS**

Haemoglobin :	12.3 Gms %	Male (N.L : 14-16 gms %)
Erythrocyte Sedimentation Rate : (Westergren 1 <sup>st</sup> hr Reding )	04 mm/hr	Male (N.L : 04-14 mm/1 hr)

**DIABETES SCREEN (BLOOD)**

Blood Glucos (Random ) 175 mg % (N.L : 70 -130 mg % )

**LIVER FUNGION TEST (BLOOD)**

Total Bilirubin	0.68 mg %	(N.L : 0.2-1.0 mg %)
Direct Bilirubin	0.28mg %	(N.L : 0.2-0.4 mg %)
Indirect Bilirubin	0.40mg %	(N.L : 0.4-0.8 mg %)

**RENUAL FUNGION TEST**

Serum Creatinine 1.01 mg % (N.L : 0.8 -1.5 mg %)

**BLOOD GROUP : " O "**

**Rh Typing : POSITIVE**

(Dr.S.B Sinha ,MD (Patho)



**PATHOLOGY REPORT**

Patient's Name : MR. BALWANT BAHADUR SINGH

Lab No -

Ref By : M.O : USHA MARTIN

Age/Sex : 40/M

Investigation desired : BLOOD

Reporting Date : 07-11-2020

**TOTAL COUNT**

Leucocytes 6,600 /cu mm (N.L 4000-11000)

**DIFFERENTIAL COUNT OF LEUCOCYTES**

Neutrophils : 60% (N.L : 40-70 %)  
Lymphocytes : 30% (N.L : 25-40 %)  
Eosinophils : 07 % (N.L : 02-09 %)  
Monocytes : 03 % (N.L : 02-06 %)  
Basophils : 00 % (N.L : 00- 02 %)

**OTHERS**

Haemoglobin : 14.1 Gms % Male (N.L: 14-16 gms %)  
Erythrocyte Sedimentation Rate : 06 mm/hr Male (N.L : 04-14 mm/1 hr)  
(Westergren 1<sup>st</sup> hr Reding )

**DIABETES SCREEN (BLOOD)**

Blood Glucos (Random ) 89 mg % (N.L : 70 -130 mg % )

**LIVER FUNGTION TEST (BLOOD)**

Total Bilirubin 0.88 mg % (N.L : 0.2-1.0 mg %)  
Direct Bilirubin 0.28mg % (N.L : 0.2-0.4 mg %)  
Indirect Bilirubin 0.60mg % (N.L : 0.4-0.8 mg %)

**RENUAL FUNGTION TEST**

Serum Creatinine 1.0 mg % (N.L : 0.8 -1.5 mg %)

**BLOOD GROUP : " B "**

Rh Typing : POSITIVE

(Dr.S.B Sinha MD (Patho))



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**PATHOLOGY REPORT**

Patient's Name : MR. ANSHU KUMAR VERMA

Lab No -

Ref By : M.O : USHA MARTIN

Age/Sex : 32/M

Investigation desired : BLOOD

Reporting Date : 07-11-2020

**TOTAL COUNT**

Leucocytes 10,700 /cu mm (N.L 4000-11000)

**DIFFERENTIAL COUNT OF LEUCOCYTES**

Neutrophils : 62% (N.L : 40-70 % )  
 Lymphocytes : 28% (N.L : 25-40 % )  
 Eosinophils : 06% (N.L : 02-09 % )  
 Monocytes : 04 % (N.L : 02-06 % )  
 Basophils : 00 % (N.L : 00- 02 % )

**OTHERS**

Haemoglobin : 14.1 Gms % Male (N.L : 14-16 gms % )  
 Erythrocyte Sedimentation Rate : 06 mm/hr Male (N.L : 04-14 mm/1 hr )  
 (Westergren 1<sup>st</sup> hr Reding )

**DIABETES SCREEN (BLOOD)**

Blood Glucos (Random ) 89 mg % (N.L : 70 -130 mg % )

**LIVER FUNGTION TEST (BLOOD)**

Total Bilirubin 0.58 mg % (N.L : 0.2-1.0 mg % )  
 Direct Bilirubin 0.24mg % (N.L : 0.2-0.4 mg % )  
 Indirect Bilirubin 0.34mg % (N.L : 0.4-0.8 mg % )

**RENUAL FUNGTION TEST**

Serum Creatinine 1.0 mg % (N.L : 0.8 -1.5 mg % )

**BLOOD GROUP : " A "**

**Rh Typing : POSITIVE**

(Dr.SB Sinha MD (Patho))

