

o/c

Ref: UML/Ranchi CPP/EC/MOEF/19-20/11/02

Dated: 30.11.2019

To

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

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

**Subject: Submission of half yearly Compliance report of Conditions stipulated in EC granted to our 2X10 MW CPP at USHA MARTIN LIMITED, Tatisilwai, Ranchi for the period April'19 to Sept'19**

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

Dear Sir,

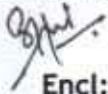
We are herewith submitting the hard copies of half yearly Compliance report of Conditions stipulated in EC granted to our 2X10 MW Captive Power Plant, M/s USHA MARTIN LIMITED, Tatisilwai, Ranchi for the period April'19 to Sept'19 for your kind perusal and reference.

Thanking you and best regards,

Yours faithfully,  
For Usha Martin ltd., Ranchi



Authorized Signatory



Encl: Compliance status with all annexure

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





usha martin

Captive Power Plant

2X10 MW CPP, Tatisilwai Ranchi

Environmental Clearance

MOEF Letter No.: J-13012/122/2008-IA.II(T) dated 07-04-2011

Compliance status as on : 30.09.2019

Period : April'19 to Sept'19

Environmental Clearance Compliance Report (Period: April'19 to Sept'19)

**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>• Application of EC amendment submitted via proposal no : UML/CPP/Ranchi / EC/ 18 I 12 / 05, Dated 20.12.2018 (<b>Annex-1</b>)</li> <li>• The MoEF&amp;CC has issued EC amendment vide letter dated 09.10.2019 and accords the following:               <ul style="list-style-type: none"> <li>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;</li> <li>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</li> </ul> </li> </ul>

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Environment Dept. 2X10 MW CPP, Ranchi



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Ranchi

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transportation.

c) Amendments regarding sourcing coal through e-auction, land requirement of the project shall be 24.437 acres instead of 12.278 acres and restriction of ash content in coal shall be 41.7% instead of 34% are allowed

- EC amendment letter is attached as annex-2

(ii)	<p>High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm<sup>3</sup></p> <p>Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.</p>	<ul style="list-style-type: none"> <li>• Complied.</li> <li>• High Efficiency Electrostatic Precipitators (ESPs) has been installed</li> <li>• Provided Bag filters and static water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable areas.</li> </ul>
(iii)	<p>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.</p>	<ul style="list-style-type: none"> <li>• Complied.</li> <li>• However, An Amendment to use 41.7% ash has been issued via letter No-J-13012/122/2008-IA.II(T) on Dated 09.10.2019</li> <li>• Coal report is attached for ref. Annex-3</li> </ul>
(iv)	<p>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.</p>	<ul style="list-style-type: none"> <li>• Complied</li> <li>• Online monitoring equipment's for SOx, NOx and PM2.5 and PM10 has been installed &amp; connected to JSPCB/CPCB server. Completion certificate attached as Annex-4 &amp; 5</li> <li>• A Mercury emission from stack has been checked on periodic basis. (Annex-3)</li> </ul>

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Environment Dept. 2X10 MW CPP, Ranchi



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(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>• Exit velocity of flue gas is maintained.</li><li>• Current report is attached. (Annex-3)</li><li>• There are no de-generated water bodies in the study area of CPP.</li></ul>
(vi)	Water requirement for running the plant shall be met from harvested rainwater and no ground water shall be extracted for the purpose.	<ul style="list-style-type: none"><li>• Water requirement for the project is met from the existing water commitment of WWR.</li><li>• Rain water harvesting system has been installed.</li><li>• No ground water is extracted.</li><li>• Completed.</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.	
(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>

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Environment Dept. 2X10 MW CPP, Ranchi

(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- 6 &amp; 7</b></li> </ul>
(xii)	The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed. A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.	<ul style="list-style-type: none"> <li>• ETP &amp; STP of latest technology have been installed &amp; treated effluent is being re-used.</li> <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.	<p>We have achieved 99% utilization rate at CPP in last one year.</p> <p>The Ash utilization report for last six Months is attached for your ref. as <b>Annex-8</b></p>

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2X10 MW CPP, Tatisilwai  
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(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. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) 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. Green Belt consisting of 3 tiers of plantations of native species around plant and covering 33% of area shall be raised. Tree density shall not less than 2500 per ha with survival rate not less than 80%.	<ul style="list-style-type: none"><li>• Complied.</li><li>• Phase wise plantation is in process.</li><li>• Report is attached as Annex 9</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</li></ul>

(xvii)

CPP (2 X 10MW)

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TOTAL VILLAGE MANAGEMENT

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Environment Dept. 2X10 MW CPP, Ranchi



Captive Power Plant

2X10 MW CPP, Tatisilwai Ranchi

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(xix)	<p>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.</p>	<p>practices, education, empowering women and encouraging micro enterprise.</p> <ul style="list-style-type: none"><li>• Complied.</li></ul>
(xx)	<p>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.</p>	<ul style="list-style-type: none"><li>• Complied.</li><li>• CSR report Attached as <u>Annex-10</u></li></ul>
(xxi)	<p>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.</p>	<ul style="list-style-type: none"><li>• Complied</li><li>• Social audit report is attached as <u>Annex-11</u></li></ul>

CPP (2 X 10MW)

USHA MARTIN LTD.

TATISILWAI, DIST. RAJKHURD, JHARKHAND

TELEPHONE NO. 06581 5103

Environment Dept. 2X10 MW CPP. Ranchi



Captive Power Plant

2X10 MW CPP, Tatisilwai  
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**GENERAL CONDITIONS**

	General Conditions:	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 Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	<ul style="list-style-type: none"><li>• Complied</li><li>• NO liquid fuel used in boiler during this period.</li></ul>
(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 heavy metals (Hg, Cr, As, Pb) 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 Annex-3</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>

CPP (2 X 10MW)  
USE OF BESTIAL LTD.  
TATISILWAI, RAJNAGAR, RAJNAGAR, RAJNAGAR  
JHARKHAND, PIN-835103

Environment Dept. 2X10 MW CPP, Ranchi



**usha martin**

Captive Power Plant

2X10 MW CPP, Tatisitwai Ranchi

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(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-3</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 SO2 Nox, PM2.5 & PM10 and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	<ul style="list-style-type: none"> <li>• Being Complied.</li> <li>• Monitored regularly by in-house NABL Accredited Environmental laboratory.</li> <li>• 3<sup>rd</sup> party analysis reports of environmental parameters are attached for your ref. as <u>Annex-12</u></li> <li>• Accreditation certificate is attached as <u>Annex-13</u></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>

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 TATISITWAI RANCHI  
 JHARKHAND. PIN-835103

Environment Dept. 2X10 MW CPP, Ranchi

(x)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, urban local Body and the Local NGO, if any from whom suggestions / representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	<ul style="list-style-type: none"> <li>• Complied.</li> <li>• Copy of Clearance letter sent is attached for ref. Annex 14</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> <li>• Link: <a href="http://www.ushamartin.com/about-us/">http://www.ushamartin.com/about-us/</a></li> </ul>
(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>• Picture of Display board is attached as Annex-15</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>

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(xiv)	<p>The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.</p>	<ul style="list-style-type: none"><li>• Complied.</li></ul>
(xv)	<p>Regional Office of the Ministry of Environment &amp; 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 &amp; ambient air) shall be displayed at the main gate of the power plant.</p>	<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)	<p>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.</p>	<ul style="list-style-type: none"><li>• A separate fund is allocated.</li></ul>

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(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-16</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>
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>

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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.

- Noted for compliance

Others conditions:

		Status
	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.	Court case is under process. Hearing for appearance was on 13.11.2019 and next date of hearing is 07.01.2020
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 and next date of hearing is 07.01.2020 Court order is yet to come.
iii.	Coal shall be procured through e-auction only and not from open market.	<ul style="list-style-type: none"> <li>• Complied. We are procuring coal through e-auction</li> </ul>
iv.	The transportation by road shall be through mechanically covered trucks to the extent feasible, else through trucks firmly covered by tarpaulin sheet.	<ul style="list-style-type: none"> <li>• Complied</li> </ul>
v.	Possibility of upgrading road shoulders into pakka road in consultation with the State Govt. be explored be explored.	<ul style="list-style-type: none"> <li>• Noted</li> </ul>

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Period : April'19 to Sept'19

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

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

Environment Dept. 2X10 MW CPP, Ranchi

Ref No.UML/ CPP/Ranchi/EC/18/12/05

Date: 20-12-2018

The Director,  
Ministry of Environment, Forests and Climate Change  
Indira Prayavaran Bhawan ,  
Jor Bagh Raod,  
New Delhi-110003

Dear Sir,

Subject: **2x10 MW coal based captive power plant at village: Tatisilwai, Ranchi, in Jharkhand**

Ref.: Amendment to Environmental Clearance accorded vide letter no. J- 13012/122/2008-1A.II(T) dated 07-04-2011.

Reference above, we wish to submit as follows:

1. The above 2x10 MW Captive Power Plant was established in Tatisilwai Ranchi with a view to ensure uninterrupted power supply to Company's steel wire and wire rope plant which is required to prevent breakage of wire to ensure internationally accepted quality of wire ropes particularly for use in critical safety application. The Wire & Wire Rope Plant located in Tatisilwai, providing engagement to about 4400 workmen is dependent on the above captive power plant.
2. Environmental Clearance to the above project was accorded under EIA notification S.O. 1533(E) dated September 14, 2006 vide Ministry's letter No. J-13012/122/2008-IA.II(T) dated 07.04.2011 (Copy given in Annexure - I). The Plant started its operation with commissioning of 1<sup>st</sup> Unit on 31.03.2012. The 2<sup>nd</sup> unit was commissioned on 31.12.2012.
3. Specific Condition (i) of the EC 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."***
4. Facilities for handling coal do not exist at Tatisilwai Railway Station located at a distance of 1 KM. Letter No.O/PL/TIS/UML/13 dated 24.07.2013 of the Divisional Railway

Manager, Ranchi states "there is no scope for handling coal at Tatisilwai Station Area.". Hatia railway station at a distance of about 15/16 KM handles only outward coal (coal transported by road from nearby mines) traffic - Letter No. O/PL/TIS/UML/15 dated 11.12.2015 from Senior Divisional Operations Manager, S.E. Rly, Ranchi refers (Refer Annexure – VI)

5. We consistently pursued with the Ministry of Railways for development of siding at Tatisilwai. However, Senior Divisional Railway Manager has informed that it is techno-economically unviable. In this connection we also refer to your letter dated 11.08.2015 addressed to the Ministry of Railways enquiring about the factual position in respect to creating required facilities at Tatisilwai Railway Station. We are not aware of the response; you might have received from the Railways (Letters are attached in Annexure - VII)
6. Hon'ble Supreme Court of India vide its judgment dated the 25<sup>th</sup> August, 2014 read with its order dated the 24<sup>th</sup> September, 2014 cancelled allocation of all coal blocks including that of LOHARI Coal Block – which was to cater to the coal requirement of the above plant.
7. In view of non-existence of required facilities for transportation of coal by Rail and cancellation of Lohari Coal Block requiring change in the source, we submitted proposal for amendment of Environmental Clearance vide our letter UML/PPP/RANCHI/EC/15/01 dated the 23<sup>rd</sup> Feb., 2015 (copy given in Annexure II(a)) on the following three counts.

**A. Correction of following typographical errors in EC issued on 07.04.2011.**

- (i) Land requirement to be read as 22.437 acres instead of 12.278 acres.
- (ii) Restriction of ash content in coal to be read as 41.7% instead of 34.0%

**B. Amendment to permit sourcing of coal from domestic/ overseas market depending on its availability and viability.**

**C. Permission of road transportation of Coal due to non existence of coal handling facilities.**

8. Our proposal was discussed by the Expert Appraisal Committee in its 36<sup>th</sup> meeting held on 19<sup>th</sup>/20<sup>th</sup> May, 2015. The Hon'ble members of the Committee recommended as follows: (Extract of para 2 of the minutes of the meeting).

*"Based on the information and clarifications provided by the Project Proponent, the detailed discussion and considering the status / progress of the project, the Committee recommended for sourcing of coal through e-auction and extension of permission for temporary road transportation of coal by three years i.e. till 31.03.2018 subject to the conditions given below. Further, the Committee also recommended for corrections in the EC i.e. land requirement shall be 22.437 acres*

**instead of 12.278 acres and restriction of ash content in coal shall be 41.7% instead of 34%."**

The extract containing entire minutes of our project is given in Annexure – II(b).

9. No EC amendment letter as recommended by the Expert Appraisal Committee has been received. Vide your letter dated 11.08.2015, we were however, advised to submit detailed plan for sourcing and transportation of coal after expiry of 3 years. Extract of the said letter is reproduced below for your ready reference:-

**"2. You are requested to provide detailed plan for sourcing and transportation of coal after expiry of three years since this Ministry will not be in position to consider similar request time and again."**

Vide our letters dated 24.08.2015, 14.12.2015, 17.03.2016, 04.07.2016 and 13.08.2016 it was submitted that facilities for rail transportation do not exist and Railways have not indicated their future plans for establishing such facilities.

10. Ministry had also approached Railway Board vide their letters 23.11.2015 and 20.10.2016 to ascertain plans for establishing facilities for coal transportation.
11. At present, the company has been sourcing coal through E-auction from the mines of Central Coalfields Ltd located within 200 Km periphery of the Plant. Central Coalfields Ltd has issued directive that lifting of coal for noncore consumers situated nearby collieries of CCL shall be permitted by road only. Their circular dated 09.09.2014 was submitted (Annexure - V) to your good self and is enclosed once again for your ready reference.

Also copy of some recent sale notifications for e-auction of coal by CCL are enclosed (Annexure – VI) wherein CCL specified condition of Road transportation of coal from their mines for nearby consumers.

12. Vide our letter UML/PPP/Ranchi/EC/18/01 dated the 19<sup>th</sup> Feb., 2018 it was brought to your kind attention that no amendment to EC has been issued and in view of non existence of coal handling facilities at railways the company is continuing transportation of coal by road transport. The relevant para is reproduced below for your ready reference.

**"Under these circumstances, we are required to continue transporting coal by road through mechanically covered trucks to the extent feasible, else through trucks covered by tarpaulin. We shall, however, start using rail transportation as soon as facilities are available"**

You will kindly appreciate that transportation of coal by road was continued as Rail Mode was not available and it was required to operate the captive power plant to supply power to the wire and wire rope plant which is solely dependent on the captive power plant.

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13. The Ministry vide its letter no. J-13012/122/2008-IA.II (T) dated the 13<sup>th</sup> April 2018 sought information in respect to date of commissioning of the power plant, mode of transportation since commissioning, feasibility of transporting coal by rail and coal source. The company vide its letter UML/PPP/RANCHI/EC/18/06 dated 24.04.2018 submitted information as desired. In connection with transportation of coal the company once again informed that:

- (a) Hatia Railway Station located at a distance of about 15/16 KM handles only outward coal (transported by road from nearby mines) traffic. Infrastructure to handle inward coal rakes does not exist. A copy of letter no. O/PL/TIS/UML/15 dated 11.12.2015 from the office of the Senior Divisional Operation Manager, South Eastern Railway, Ranchi was also submitted.
- (b) Tatisilwai Railway Station located at a distance of 1 KM does not have coal handling facilities and no time line has been decided by the Railways for establishing such facilities. A copy of letter no. O/PL/RNC/Goods shed/TIS/18/286 dated 10.04.2018 from Senior Divisional Operations Manager was also submitted.
- (c) As per policy of the Central Coalfields Ltd., allotment of coal to nearby consumers shall be made by Road Mode only. Circular No. CCL/HO/C-4/S&M/FSA/Road Mode/9008-18 dated 09.09.2014 of Central Coalfields Ltd, Ranchi was also submitted.

14. In view of

- (i) That, 2x10 MW Power Plant is captive source for power requirement of company's wire and wire rope plant.
- (ii) That, Coal requirement for the power plant is only 0.183 MTPA equivalent to 500 tons per day involving transportation by 20 tippers (25 ton capacity) per day.
- (iii) That, a study of impact of coal transportation from nearby mines has been carried once again. The study concludes that the existing road capacity, type and condition from mines to CPP are adequate to accommodate the additional traffic of 40 tippers (25 ton capacity) per day (to and fro).
- (iv) That, Lohari block has been deallocated by the orders of the Hon'ble Supreme Court and coal at present is being sourced through e-auction and as per policy of Central Coalfields Ltd only Road Mode is permitted in case of nearby customers.

We would request you to kindly grant approval for transportation of coal by road and accord permission for amendment of EC No.J-1302/122/2008-IA.II(T)dated **07.04.2011** as follows:



1. Amendment to Specific Condition (i) permitting sourcing of coal required for the 2x10 MW CPP from domestic/overseas source and permitting its transportation to the plant by road using mechanically covered trucks to the extent feasible else through tarpaulin covered trucks covering period from 01.04.2015.

**The company shall transport coal by rail if and when facilities are established by railways subject to availability of wagons/rakes.**

2. Rectification of typographical errors as per details given hereunder:
  - (i) Land requirement to be read as **22.437 acres** instead of **12.278 acres**.
  - (ii) Restriction of ash content in coal to be read as **41.7%** instead of **34.0%**

15. We are enclosing herewith the following for your perusal.


(a) Duly Filled in Form-1 (Annexure III)

(b) Study Report of impact of coal transportation (Annexure IV)

We trust, our proposal shall meet your approval and look forward to your further instructions.

Thanking you and assuring you of our best attention.

For Usha Martin Ltd.

  
Authorized Signatory

Enclosures:

Annexure	Brief Description
Annexure-I	Environmental Clearance accorded for the project date 07-04-2011
Annexure-II	a) Covering letter of our Proposal for EC amendment dtd. 23.2.15 b) Extract of relevant pages from Minutes of Meeting of 36 <sup>th</sup> EAC dt 19/20 May, 2015.
Annexure - III	Form - I
Annexure - IV	Traffic Impact study - for coal transportation of 0.183 MTPA from nearby CCL Mines
Annexure - V	CCL Circular dated 09.09.2014
Annexure - VI	Recent examples of CCL's spot e-auction offers stating "by road mode"
Annexure - VII	Chronology & letters exchanged with Railways.

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# usha martin

## Usha Martin Limited

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Ref: UML/CPP/Ranchi/EC/15/01

Dated : 23<sup>rd</sup> Feb., 2015

The Director,  
 Ministry of Environment, Forests and Climate Change  
 Indira Prayavaran Bhawan ,  
 Jor Bagh Raod,  
New Delhi-110003

Kind Attention : Director, Member Secretary (EAC-Thermal)

Subject: Request for Environmental Clearance Amendment for procurement of coal through e- auction and transport by road to the project for 2x10 MW coal based captive power plant at village: Tatisilwai, Ranchi, and Jharkhand

Ref.: Environmental Clearance granted by MOEF : letter no :  
 J- 13012/122/2008-1A.II(T) dated 07-04-2011

Respected Madam,

Reference is invited to the environmental clearance accorded for 2X10 MW CPP at Tatisilwai Village, Ranchi vide ref. No : J-13012/122/2008-1A.II(T) dated 07-04-2011. Copy of the letter is attached for your ready reference at Annexure-I. The project has obtained NOC (Consent to Establish) on 26-08-2009 and Consent to Operate on 02-09-2011 and is under operation since 31-03-2012.

While obtaining the environmental clearance, it was envisaged that the source coal for the project shall be Lohari Coal Block near Daltonganj which is about 200km away. However, in respect to transportation of Coal, from Lohari Coal Block, the Environment Clearance accorded by the Ministry stipulates as follows:

Quote

*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.*

Unquote

M/s UML has consistently pursued with the Ministry of Railway in compliance of above stipulation. However, no permission for unloading of coal at Tatisilwai station is given. A brief of chronology and communications in this regard is given in Annexure-II.

Supreme Court of India vide judgment dated 25<sup>th</sup> Aug., 2014 read with its order dated 24<sup>th</sup> Sept., 2014 has cancelled allocation of all Coal Blocks including that of Lohari Coal Block. Coal requirement of the project shall be met by domestic and or imported coal depending on its availability and viability.

At present, it is proposed that, coal shall be procured through e-auction from Piparwar, Ashoka mines which are situated at a distance of about 75 Km away till coal commitment is given for operating the captive Power Plant. The Central Coal Fields ( CCL) issued a directive for Road transportation of E-Auction Coal from Piparwar, Ashoka mines. Copy of which is enclosed at Annexure-III.

The coal characteristics shall be within the approved characteristics of sulphur (0.3 to 0.5%) and ash (41.7%) while granting Environmental clearance by MoEF thus the Environmental impact of the Captive Power Project shall be within approved values.

In view of the, It is requested that the environmental clearance granted for the project may please be amended to procure 0.183 MTPA of raw coal (with same characteristics as permitted in EC) from nearby mines or through e-auction or import and transport to site.

The impact of transport of coal to the site has been carried by MOEF approved QCI accredited consultant M/S Minmec, Delhi and is enclosed. It can be seen from the report that

1. The ambient air quality shall be within the applicable standards around the Captive Power plant as the coal proposed to be procured is of same quality as that is permitted in Environmental Clearance.
2. There shall not any significant impact in transport of coal 0.183 (MTPA) which would be increase traffic by about 25 Trucks of 20 MT capacity.

The environmental Protection measures during transportation of coal are included in the report and the company shall implement the same.

These include Traffic Regulation by installation of Traffic Signals- Time Scheduling for movement of Trucks – Plantation on either side of roads with the help of Villagers /locals.

Further the following is submitted for necessary rectification in the Environmental clearance granted for the project:

S.No	Reference	Text as given in EC	Correction / rectification sought	M/s UML submission
1	Para 2.0	Land requirement is 12.278 Acres	Land requirement for POWER PLANT is 12.278 Acres.	May please refer to the land requirement as submitted in Final EIA – EMP and Questionnaire- Copy attached at Enclosure-I for your ready reference.

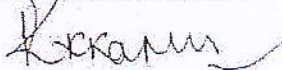
2	Specific condition (iii)	"Sulfur and ash contents in the coal to be used in the project shall not exceed 0.5 % and 34 % respectively at any given time.	Ash content of 41.7% instead of 34% as mentioned.	In view of the para 2.0 of the EC and Final EIA- EMP submissions.
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With a copy of this letter we are approaching and requesting the Regional Office of the Ministry to submit EC Compliance report as required by the Ministry in accordance with the Memorandum dated 20.10.2099 and 30.05.2012.

In view of the above it is requested that specific condition (i) of the Environmental Clearance issued for our 2X10 MW CPP at Tatisilwai village, Ranchi be amended for permission to procure 0.183 MTPA of coal through e – auction and transport to site by Trucks.

Thanking you and assuring you of our best attention.

Yours faithfully,  
For Usha Martin Ltd.



R.K. Kapur  
Authorized Signatory

Enclosures:

Annexure	Brief Description
Annexure-I	Environmental Clearance accorded for the project date 07-04-2011
Annexure-II	Correspondence with Railway Authorities
Annexure-III	Traffic Impact study – for coal transportation of 0.183 MTPA from Ashoka & Piparwar Mines

Note : Soft copy of the letter along with the report is attached as required by MOEF OM dated 20-03-

12

**MINUTES OF THE 36<sup>th</sup> MEETING OF THE RE-CONSTITUTED EXPERT APPRAISAL COMMITTEE ON ENVIRONMENTAL IMPACT ASSESSMENT OF THERMAL POWER & COAL MINING PROJECTS**

The 36<sup>th</sup> Meeting of the reconstituted Expert Appraisal Committee (Thermal Power) was held on **19<sup>th</sup>-20<sup>th</sup> May, 2015** at Brahmaputra Meeting Hall, Vayu Wing, First Floor, Indira Paryavaran Bhawan (New Building), Jorbagh Road, New Delhi-110003. The members present were:

- |                        |   |                                 |
|------------------------|---|---------------------------------|
| 1. Prof. C.R. Babu     | - | Vice Chairman (Acting Chair)    |
| 2. Shri T.K.Dhar       | - | Member                          |
| 3. Shri A.K. Bansal    | - | Member                          |
| 4. Shri G.S. Dang      | - | Member                          |
| 5. Shri N.K. Verma     | - | Member                          |
| 6. Shri N.S. Mondal    | - | Member (Representative of CEA)  |
| 7. Dr. S.S. Bala       | - | Member (Representative of CPCB) |
| 8. Ms. Sanchita Jindal | - | Member Secretary                |

In attendance: Dr. M. Ramesh, Scientist 'D', MoEF&CC.

Shri J.L Mehta, Dr. C.B.S Dutt, Dr. S.D. Attri, Dr. Ratnavel, and Dr. Asha Rajvanshi were not present.

**Item No.1: CONFIRMATION OF THE MINUTES OF THE LAST MEETING.**

The Minutes of the 34<sup>th</sup> EAC meeting held during 29<sup>th</sup>-30<sup>th</sup> April, 2015 were confirmed with the following correction.

The proposal No. 2.4 shall be read as, "*Marwa Thermal Power Plant of 2x500 MW at Marwa, District Janjgir Champa in Chhattisgarh by M/s Chhattisgarh State Power Generation Company Ltd. - For Reconsideration for Extension of EC*".

**Item No. 2: CONSIDERATION OF PROJECTS**

**2.1 Barethi Super Thermal Power Project of 2640 (4x660) MW at Villages Barethi, Basari, Sandni & Satna, Tehsil Rajnagar, District Chhatarpur, Madhya Pradesh by M/s NTPC Ltd. - For EC.**

The PP along with their environmental consultant, EMTRC Consultants Pvt. Ltd., Delhi made a presentation and inter-alia provided the following information:

- (i) ToR for carrying out EIA study for Barethi STPP (6X660 MW) was accorded by the Ministry initially on 09.09.2010, which was valid till 08.09.2013. Public Hearing was conducted on 17.06.2011 and the final EIA report was submitted to the Ministry on 18.10.2011. However, the same was not considered by the Ministry due to non-availability of firm coal linkage. Accordingly, the Project proponent (PP) had applied for fresh ToR for revised capacity of 2640 (4X660) MW, Stage-I and also requested for exemption of Public Hearing (PH).
- (ii) ToR for carrying out EIA study for Barethi STPP of 2640 (4X660) MW was accorded on 25.07.2014 with PH exemption as there was no change in the location of project site and no TPP or any other industry came up within 10 Km radius from the project site

EC dated 19.02.2008 had expired on 18.02.2013, the PP was asked to apply afresh for ToR. Hence, the instant application was made.

(ii) The proposed CPP will meet the power requirement of the proposed ISP and will be installed within the land already acquired for setting up the ISP. The land requirement for the CPP is 137 acres including ash dyke and green belt. The site is in conformity with CRZ regulations (500 m away from HTL) and guidelines of distance (500 m) from HFL of River, Highway and Railway line. There are no ecologically sensitive areas within 10 km radius of the site, no R&R issues and no litigations. The project cost is about Rs. 1,600 crores.

(iii) The coal requirement is 1.5 MTPA and is proposed to be sourced from Ichhapur coal block and transported by Rail. The raw water requirement is 698 m<sup>3</sup>/h and will be sourced from River Rupnarayan. Recirculating closed cycle cooling system with COC of 5.0 shall be used. Zero discharge concept will be adopted for the effluent treatment.

2. ToR for preparation of EIA/EMP for 660 MW (IPP) in the same location was accorded by the Ministry on 7.1.2014 and the baseline data was collected during December, 2014 - February, 2015. The PP requested for utilizing the same data for the preparation of the EIA/EMP for the proposed CPP. *The Committee agreed for the same.*

3. *Based on the information provided and the presentation made, the Committee observed that these are two different companies for ISP and CPP. Therefore, it cannot be considered as CPP. It would be considered as a separate power plant which will be supplying its whole electricity to the steel plant. The committee **recommended** the following ToR in addition to the standard TORs (as applicable) at **Annexure-A1** for undertaking detailed EIA study and preparation of EMP.*

(i) *Certificate from SPCB that no other developmental activity has taken place in the study area since the collection of base-line data i.e. December, 2014 - February, 2015.*

**2.6 Coal Based Thermal Power Plant of 2x300 MW (Phase-I) at Village Ghanmukh (Bijora), Mahagaon Taluk, Yavatamal District in Maharashtra by M/s. Jinbhuvish Power Generations Pvt. Ltd.- For Amendment of EC.**

The PP informed that due to some unavoidable circumstances they are not in a position to come for presentation before the Committee. It was decided that this proposal may be taken up in the next meeting.

**2.7 Coal Based Captive Thermal Power Plant of 2x10 MW at Village Tatisilwai, District Ranchi in Jharkhand by M/s. Usha Martin Ltd. - For Amendment of EC.**

The PP along with their environmental consultant, Min Mec Consultancy Pvt. Ltd., New Delhi, made a presentation and inter-alia provided the following information-

(i) EC was accorded to the above CPP on 07-04-2011 and the same is under operation. As per the EC, the coal will be obtained from captive Lohari coal block near Daltonganj in Jharkhand, which is about 200 km from the project. While obtaining EC, it was also submitted that the coal requirement shall be met through local market/E-auction as the coal linkage is in process by Ministry of Coal. The coal characteristics proposed were GCV (2880 Kcal/Kg), sulphur (0.3 to 0.5%) and ash (41.7%).

(ii) The first unit of CPP (10 MW) was operational from 31.03.2012 and second unit of 10 MW was operational since 31.12.2012. However, only one of the units is in operation due to non-availability of JSEB Grid synchronization systems and thus only 10 MW Unit was in operation till April, 2014. During this period, coal requirement of about 180 TPD was met through various mines like – Purnadih (CCL), KDH, Ashoka Mines etc. through E-auction and High GCV Slag coal from Heavy Engg. Corporation, Ranchi through Window sale which are at a varying distances of 22 to 80 Kms from CPP. This coal was transported by road in 20 MT trucks.

(iii) The Lohari coal block has been de-allocated by the Hon'ble Supreme Court along with all the coal blocks. However, the PP has now been allocated Brinda-Sasai coal blocks in Chatra-Hazaribagh Districts of Jharkhand. The vesting order for the same has been issued on 22.04.2015. As the allocated coal block is yet to be developed, and shall take considerable time for commencement of production and supply to the project, it is requested initially, minimum of 3 years, be permitted for procurement of coal through E-auction from Ashoka Piparwar area and Sikini Mines and transport to the CPP.

(iv) Further, the EC stipulates at specific condition no. I that, *“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.”*

(v) The nearest railway siding is Tatisilwai (approx. 1 km from CPP). It is a loading siding and no provision for unloading is there. As per MOEF's stipulation, the PP has pursued through various correspondence since 2011 for development of this siding. Divisional Railway Manager (DRM), Hatia has informed that there is no scope for coal handling at Tatisilwai (as it is tech-economically unviable). For small quantities of coal, railways does not give rakes. Further, Central Coal fields Ltd. (CCL) has issued letter dt. 09.09.2014 stating that *“from October, 2014 onwards, the coal allotment will be made by road mode only”* for non core consumers. A study of existing rail & road network brings out that road transportation needs to be done in addition to the rail transport and material handling.

(vi) A study of impact of coal transportation by road for the requisite coal 0.183 MTPA (500 TPD) by 20 T trucks was carried from the two sources of coal either in part or in full, namely, Ashoka and Piparwar mines (e-auction) of CCL or Sikini (purchase) or a combination of both. The distance from Sikini and Ashoka/Piparwar mines to the Plant is 106 Km and 84 Km respectively. The proposed routes are State Highways and maintained by the State Govt.

(vii) The study concludes that the existing road capacity, type and condition from mines to CPP are adequate to accommodate the additional traffic of 50 Trucks/day (to & fro) for 500 TPD coal movement (maximum of 2 trucks per hour). No bottle necks and issues were found at any location at the time of study & there were no traffic jams observed. When the Passenger Car Units (PCU) projections for the future percent utilization were estimated, it was found that the carrying capacity (as per IRC 64-1990) at all Census points were within limits. However, at Bijupara needs attention as already 96.8% of the capacity is being utilized. The resultant concentrations of PM<sub>10</sub>, CO and NO<sub>x</sub> shall remain within limits after additional traffic load. Environment protection measures were also suggested.

(viii) Further, there are typographical errors in the EC in respect of Land i.e. actual land proposed was 22.437 Acres instead of 12.278 Acres mentioned in EC and ash content in coal proposed was 41.7% instead of 34% stipulated in Specific Condition (iii) of the EC. Hence, corrections in the EC are requested.

2. Based on the information and clarifications provided by the Project Proponent, the detailed discussion and considering the status/progress of the project, the Committee recommended for **sourcing of coal through e-auction and extension of permission for temporary road transportation of coal by three years i.e. till 31.03.2018** subject to the conditions given below. Further, the Committee also recommended for corrections in the EC i.e. land requirement shall be 22.437 Acres instead of 12.278 acres and restriction of ash content in coal shall be 41.7% instead of 34%.

- i) Coal shall be procured by e-auction only and not from open market
- ii) The transportation by road shall be through mechanically covered trucks to the extent feasible, else through trucks covered by tarpaulin.
- iii) Explore the possibility of upgrading road shoulders into pakka road in consultation with the State Govt.
- iv) Periodic maintenance of the road shall be done by the project proponent at its own expenses and shall also facilitate the traffic control on the road in consultation with the State Govt.
- v) Avenue plantation of 2/3 rows all along the road shall be carried out by the project proponent at its own expenses in consultation with the State Govt.
- vi) The PP shall advertise in the local leading newspapers and place on the website, the temporary permission accorded by the Ministry for public information.

**2.8 Coal Based Captive Thermal Power Plant of 2x67.5 MW at Village Anantapur, Tehsil Athagarh, Distt. Cuttack, Orissa by M/s. Bhubaneswar Power Pvt. Ltd. - For Extension of validity of EC.**

The PP made a presentation and inter-alia provided the following information-

- (i) EC was accorded to the above proposal by the Ministry on 14.05.2010. One of the Specific Condition of the EC is that, EC is subject to obtaining prior clearance from the NBWL under WL (Protection) Act. 1972. Application for NBWL clearance was made on 03.06.2010 and was received on 22.08.2012 (26 months). In addition to the delays in receiving the approvals from the State and Central Governments to start the project, the construction and schedule of the project have been adversely affected due to *Cyclone Phailin* in October 2013 & *Cyclone Hudhud* in October 2014.
- (ii) The Plant construction is 85% complete. The detailed progress of various units/facilities along with photographs was presented. The time required to complete the balance activities was also submitted. A minimum period of 20 months would be required for operation of the Units.
- (iii) The delay in starting the Project because of the time taken for receiving the NBWL Clearance also had its impact on the Railway Siding for the project. The Railway Siding



CCL

A Miniratna Company

**CENTRAL COALFIELDS LIMITED**

(Govt. of India Undertaking)  
SALES & MARKETING DIVISION  
DARBHANGA HOUSE, RANCHI 834 029  
Tele: 0651-236 5738  
Website: [www.ccl.gov.in](http://www.ccl.gov.in)

No.CCL/HQ/C-4/S&M/FSA/Road Mode/ 9008-15

Dated: 09/09/2014

To,

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**Sub : Lifting of coal through Road Mode from October'2014 onwards for noncore consumers situated nearby the collieries of CCL .**

Dear Sir,

In continuation to our earlier letter no. CCL/HQ/C-4/FSA/Road mode/7388 dated 04/05-08-2014 for lifting of coal by Road mode and circulation of minutes of the meeting held with nearby consumers of CPP/Sponge Iron on 8th August'2014 at CCL, Ranchi vide letter no: CCL/HQ/C-4/8073 dated 22-08-2014, this is to inform you that from October'2014 onwards the coal allotment will be made by Road mode only. In this regard decision of the meeting held on 8<sup>th</sup> August'2014 is quoted below :

" All the concerned consumers should submit their consent for shift their mode of dispatch from Rail to Road from 1<sup>st</sup> October'2014. Further, all the concerned consumers were advised to sign a side agreement with CCL for inclusion of RAIL/ROAD mode in their FSA in case consumer is having only RAIL mode of transport in FSA".

Road Sale Offer shall be made from October'2014. After deposition of full coal value of the allotted monthly quantity, sale orders will be issued from CSC, CCL, Ranchi. These sale orders are required to be submitted at concern colliery for lifting of coal by Road mode. No offer/allotment will be done from 1<sup>st</sup> October '2014 by Rail mode against the FSA of the your unit till further order.

You are therefore requested to visit the CCL's website [www.ccl.gov.in](http://www.ccl.gov.in) for formalities of bank mandate for coal value deposition from Oct'14 quota or visit the office of Road Sale or Computerized Sale Centre (CSC), Darbhanga House , Ranchi for further queries. You are also requested to submit the copy of same set of annual document submitted at CCL Kolkata office for release of coal during 2014. In addition to above you have to submit the monthly documents from October'2014 onwards.

General Manager (S&M)  
CCL, Ranchi

End: Bank Mandate form, notice for annual documents and monthly documents

No. CCL/HQ/C-4/ SPL. SPOT E-AUCTION/Nov.'18/16577

Dated: 27/11/2018

**SCHEDULE & MODALITIES REGARDING SPECIAL SPOT E-AUCTION -2018-19-PHASE-II**

It is for information of all Buyers that Special Spot E-Auction-2018-19-Phase-II is scheduled to be held on **4<sup>th</sup> December'2018 through M Junction Limited.**

The Special Spot e-Auction will be conducted as per the terms and conditions followed for Special Spot e-Auction-2018-19-Phase-I & Scheme for Spot e-Auction of CIL. The basic eligibility criteria for the prospective consumers shall remain as clause I of existing Spot e-auction scheme of CIL. The relevant condition for validity period and schedule of lifting would be as below:-

1. The e-Auction is being conducted for 3 (three) months period i.e. from Dec.'18 to Feb.'19.
2. The successful bidder shall have to give declaration regarding distribution of quantity in three months period i.e. from Dec.'18 to Feb.'19 within 7 days of auction.
3. The successful bidder would be required to make the payment for Dec.'18 within 10 (ten) working days of e-Auction, for Jan.'19 to Feb.'19 by last working day of preceding month.
4. Lifting validity for all months' quota under Road mode would be 28/02/19.

Further, following modalities would also be applicable for this e-Auction:-

"Applicable price on the date of despatch of coal would be variable in line with the changes in the notified price of CIL, i.e. the percentage increase over the Reserve Price at which the bid is clinched, shall be applicable over the revised Reserve Price arising out of price revision, if any, on the date of despatch. However, any change in the methodology/guiding principle for determining the reserve price in subsequent days would not be applicable for revision of current method of determining the reserve price, except for change in the notified price as mentioned above."

For any other enquiry regarding the same, contact details are as follows:-

**Details of M/s Mjunction is as under:**

Godrej Water Side, Tower 1, 3<sup>rd</sup> Floor,  
Plot No.5, Block DP Sector V, Salt Lake City  
Kolkata - 700091

**Contact Persons at M/s Mjunction:**

(Toll Free) 1800 419 20001  
Website <http://www.coaljunction.in>  
E-mail: [coaljunction@mjunction.in](mailto:coaljunction@mjunction.in)

Sd/-  
GM (M&S), CCL

**Copy to:**

1. Director(F), CCL
2. TS to CMD, CCL
3. GM(M&S), CIL, Kolkata
4. GM (System) - kindly direct the concerned to upload the same on CCL website.
5. All Area GMs, CCL
6. Chief Manager (M&S/RS), CCL, Ranchi
7. Sr. Manager(Fin./CSC)/ (M&S/Traffic), CCL
8. Notice Boards, S&M Deptt. CCL Ranchi/ CSC, M&S., CCL, Ranchi / CCL Desk office Kolkata
9. M/s. M Junction Ltd.-through e-mail

 Welcome Chandan Jha

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[Sign Out](#)

## e-Auction Details

Server Time :2018/9/11 13:37:31

e-Auction No	Opening Date & Time	Closing Date & Time
MSTC/HO/Central Coalfields Limited - Road/11/Jharkhand State/18-19/62	2018-09-14::14:00:00	2018-09-14::16:00:00

## Seller Details

Location	Street	City	Country	Telephone	FAX	Email	Contact Person
Jharkhand State	Darbhangra House	Ranchi-834001	INDIA	91651-2360369	91651-2360369	cilcoal2010@gmail.com	Sri Rajeev Gupta

**UOM = Unit of Measurement**

Lot No	Lot Description	Quantity & UOM	Reserve Price/MT	Location
09 S4649	<b><u>GCV : 4601-4900 .Product Type: SLURRY . To be delivered by road. Delivery Period is 6(six) months.</u></b>	230000.0 MT	1778.00	KATHARA W. SLURRY
10 S3740	<b><u>GCV : 3701-4000 .Product Type: SLURRY . To be delivered by road. Delivery Period is 6(six) months.</u></b>	30000.0 MT	1382.00	SWANG W. SLURRY
11 S3740	<b><u>GCV : 3701-4000 .Product Type: SLURRY . To be delivered by road. Delivery Period is 6(six) months.</u></b>	50000.0 MT	1382.00	PIPARWAR SLURRY (MECHANICAL LOADING)
12 S5861	<b><u>GCV : 5801-6100 .Product Type: SLURRY . To be delivered by road. Delivery Period is 6(six) months.</u></b>	50000.0 MT	3558.00	RAJRAPPA-SLURRY
13 R3134	<b><u>GCV : 3101-3400 .Product Type: REJECT . To be delivered by road. Delivery Period is 6(six) months.</u></b>	50000.0 MT	1166.00	GIDI W REJECTS
14 R2225	<b><u>GCV : 2201-2500 .Product Type: REJECT . To be delivered by road. Delivery Period is 6(six) months.</u></b>	25000.0 MT	697.00	SWANG W. REJECTS
15 R2528	<b><u>GCV : 2501-2800 .Product Type: REJECT . To be delivered by road. Through payloader loading. Delivery Period is 6(six) months.</u></b>	50000.0 MT	785.00	KARGALI W REJECTS (P/L)
16 R2831	<b><u>GCV : 2801-3100 .Product Type: REJECT . To be delivered by road. Delivery Period is 6(six) months.</u></b>	20000.0 MT	920.00	PIPARWAR W REJECTS

## Special Terms and Conditions

**Bidders should read the Terms & Conditions of Special Spot e-Auction Scheme'carefully before bidding and satisfy itself about its eligibility to bid as per the eligibility condition. Coal will not be supplied to the non eligible bidders.**

[CLICK HERE FOR DETAILED TERMS & CONDITIONS FOR SPECIAL SPOT E-AUCTION SCHEME 2018-19 Phase-I](#)

 Welcome Chandan Jha

Proceed To Home

Sign Out

e-Auction Details		Server Time :2018/9/11 13:36:57	
e-Auction No	Opening Date & Time	Closing Date & Time	
MSTC/HO/Central Coalfields Limited - Road/10/Jharkhand State/18-19/61	2018-09-14::11:00:00	2018-09-14::13:00:00	

Seller Details							
Location	Street	City	Country	Telephone	FAX	Email	Contact Person
Jharkhand State	Darbhanga House	Ranchi-834001	INDIA	91651-2360369	91651-2360369	cilcoal2010@gmail.com	Sri Rajeev Gupta
<b>UOM = Unit of Measurement</b>							

Lot No	Lot Description	Quantity & UOM	Reserve Price/MT	Location
01 N4346	<b><u>GCV : 4301-4600 .Grade Size: ROM . To be delivered by road. Through payloader loading. Delivery Period is 6(six) months.</u></b>	100000.0 MT	1596.00	Magadh OC
02 N3740	<b><u>GCV : 3701-4000 .Grade Size: ROM . To be delivered by road. Through payloader loading. Delivery Period is 6(six) months.</u></b>	100000.0 MT	1382.00	Magadh OC
03 N3740	<b><u>GCV : 3701-4000 .Grade Size: ROM . To be delivered by road. Through payloader loading. Delivery Period is 6(six) months.</u></b>	100000.0 MT	1382.00	Amrapali Coal Sales Centre
04 N4346	<b><u>GCV : 4301-4600 .Grade Size: ROM(-100 MM) . To be delivered by road. Through payloader loading. Delivery Period is 6(six) months.</u></b>	200000.0 MT	1596.00	Amrapali Coal Sales Centre (SM)
05 S2528	<b><u>GCV : 2501-2800 .Product Type: SLURRY . To be delivered by road. Delivery Period is 6(six) months.</u></b>	50000.0 MT	785.00	GIDI-W SLURRY
06 S6164	<b><u>GCV : 6101-6400 .Product Type: SLURRY . To be delivered by road. Through payloader loading. Delivery Period is 6(six) months.</u></b>	10000.0 MT	3900.00	KEDLA-W SLURRY (PL)
07 S5558	<b><u>GCV : 5501-5800 .Product Type: SLURRY . To be delivered by road. Through payloader loading. Delivery Period is 6(six) months.</u></b>	30000.0 MT	3281.00	KEDLA-W SLURRY (PL)
08 S5255	<b><u>GCV : 5201-5500 .Product Type: SLURRY . To be delivered by road. Delivery Period is 6(six) months.</u></b>	36000.0 MT	3004.00	KATHARA W. SLURRY

#### Special Terms and Conditions

**Bidders should read the Terms & Conditions of Special Spot e-Auction Scheme'carefully**

**SPOT E-AUCTION OFFER**

**SERVICE PROVIDER :M JUNCTION LIMITED  
SALE OF RAW COAL/ SLURRY BY ROAD MODE**

**AUCTION DATE : 4th June'18**

SALE POINT	SALE PONT CODE	PRODUCT CODE	GRADE SIZE		QUANTITY FOR E-AUCTION	E-AUCTION RESERVE PRICE
1 RAJRAPPA-SLURRY (HEAP NO. 12 & 12A)	1566	S5255		5201-5500	11000	3004
2 RAJRAPPA-SLURRY (HEAP NO. 12C)	1568	S4649		4601-4900	3500	1778
3 KATHARA SLURRY (HEAP NO. 6)	0873	S4649		4601-4900	10000	1778
4 GIDI-W SLURRY (HEAP NO. 4/5/6)	0463	S2528		2501-2800	15000	785
5 PIPARWAR SLURRY (HEAO NO. 7) (MECHANICAL LOADING)	1783	S3740		3701-4000	15000	1382
6 TETARIAKHAR HEAP NO. 5A #	1213	N4346	ROM	4301-4600	100000	1596
7 AMRAPALI COAL SALES CENTRE HEAP NO. 2/9A #	1135	N3740	ROM	3701-4000	1000000	1382
8 BENTI COAL DUMP ASHOKA HEAP NO. 38 #	1788	N4043	ROM	4001-4300	148300	1489
9 MAGADH OC HEAP NO. 5A #	1130	N4649	ROM	4601-4900	50000	1778
10 KARMA HEAP NO. 3A #	1359	N5255	ROM	5201-5500	20000	3004
11 GIRIDIH HEAP NO. 1 #	1012	N4649	ROM	4601-4900	10000	1778
12 AMLO OC HEAP NO. 9 #	1676	N4346	ROM	4301-4600	5000	1596
13 AMRAPALI COAL SALES CENTRE HEAP NO. 8/14 #	1129	N4043	ROM	4001-4300	120000	1489
14 JHARKHAND OCP HEAP NO. 13/16/18 #	1478	22403	W-IV ROM		32800	2990
15 BHURKUNDA (SANGAM) HEAP NO. 20 #	2184	N5255	ROM	5201-5500	5500	3004
16 CHURI HEAP NO. 9D #	2203	N6164	ROM	6101-6400	1250	3900
17 ROHINI OCP HEAP NO. 16N #	0655	N3134	ROM	3101-3400	5000	1166
18 SEL. DHORI OC HEAP NO. 1&1A #	2201	N4346	ROM	4301-4600	30000	1596
19 KONAR (EXPANSION) OCP HEAP NO. 3 #	0711	N4952	ROM	4901-5200	10000	2284
20 PURNADIH HEAP NO. Q1-1 #	0616	N3437	ROM	3401-3700	50000	1274

1642350

**# THROUGH PAYLOADER LOADING**

**URGENT AND IMPORTANT :**

- ALL CUSTOMERS TO NOTE , CCL IS PROVIDING RTGS/NEFT FACILITY FOR SUBMISSION OF COAL VALUE . CERTAIN FORMALITIES REGARDING BANK DETAILS ARE TO BE FULFILLED . FOR DETAILS PLEASE VISIT CCL'S WEBSITE [centralcoalfields.in](http://centralcoalfields.in)
- THE PROSPECTIVE BUYERS MAY SATISFY THEMSELVES REGARDING THE STOCKS AT DIFFERENT COLLIERIES/SIDINGS BEFORE PARTICIPATING IN THE AUCTION PROCESS.
- IN ADDITION TO BID PRICE OTHER ADD ON PRICES IF ANY WILL BE RECOVERED , STATUTORY CHARGES AND GOVT. LEVIES WILL BE CHARGED AS APPLICABLE ON THE DATE OF DELIVERY .
- BEFORE PARTICIPATING IN E-AUCTION BIDDERS MUST SATISFY THEMSELVES WITH THE QUALITY OF THE COAL BEING OFFERED FROM A SOURCE.
- IN ADDITION TO ABOVE, GST, SALES TAXES, ROYALTY, SED, EXCISE DUTY, CLEAN ENERGY CESS , COMMITMENT CHARGE , BENEFICIATION CHARGE ,SURFACE TRANSPORTATION CHARGES, SIZING CHARGE & ANY OTHER CHARGES AS APPLICABLE WILL HAVE TO BE PAID BY BUYERS AT CCL.
- PRICE BASED ON GCV IS AVAILABLE ON [www.centralcoalfields.in](http://www.centralcoalfields.in). FOR NON-COKING COAL . THE PRICES OF WASHERY GRADE COAL IS AS PER PRICE NOTIFICATION DATED 13-01-2017.
- THE REFUNDS SHALL BE MADE ONLY TO THE A/C NO. AND THE BANK THROUGH WHICH THE COAL VALUE WILL BE DEPOSITED AND AS PER E-MANDATE PROVIDED BY THE CUSTOMER TO CCL .
- EMD FOR ALL TYPES OF COAL WILL BE RS. 200/- PER TONNES .
- ALL SELECTIVE LOADING IRRESPECTIVE OF MEANS OF LOADING AND MODES OF DISPATCH TO BE CONSIDERED AS LOADING OF STEAM SIZED COAL OF +25 MM. THEREFORE , IN CASE OF SELECTIVE LOADING , A STEAM SIZING CHARGE, WHICH IS PRESENTLY RS. 270/- PER TONNE, BE CHARGED ON THE ROM PRICE ON ACCOUNT OF SIZING.
- IN ADDITION TO ABOVE , BENEFICIATION CHARGE BE LEVIED FOR ALL SELECTIVE LOADING . THE BENEFICIATION CHARGE BE THE PRICE DIFFERENCE AS PER THE GRADES IDENTIFIED IN THE GRADE NOTIFICATION OF THE COAL COMPANY FOR STEAM AND ROM RESPECTIVELY.
- THE SELECTIVE LOADING CHARGE FROM THE ROM BE THE SUMMATION OF THE SIZING CHARGE i.e. RS. 270/- PER TONNE AND THE DIFFERENCE OF PRICE ARISING OUT OF THE GRADES OF STEAM AND ROM.
- PARTICIPATION OF AUCTION CONSUMERS IN THE BIDDING PROCESS THROUGH THIS NOTICE WILL MEAN THAT THE BIDDER ACCEPTS AND AGREES FOR ALL THE TERMS AND CONDITION OF SCHEME AS WELL AS THIS NOTICE IN TOTALITY .
- COMPETENT AUTHORITY OF CCL HAS ALLOWED FOR ROUND THE CLOCK LOADING THROUGH TIPPER TRUCKS/ HYWA TO CONSUMERS WHO BOOK ORDERS FOR ONE LAKH TONNES OR MORE AND LOADING THROUGH TIPPER TRUCKS / HYWA WITHIN AGREED TIMELINE OF ROADSALE TO CONSUMERS WHO SHALL BOOK ORDERS FOR 25,000 TONNES OR MORE FROM CCL FROM A SOURCE UNDER EACH E-AUCTION UNDER ROAD/ RCR MODE, IF THEY AGREE TO COMPLY WITH BELOW MENTIONED POINTS :-  
A) Such e-Auction consumers must have proper arrangement of dust suppression and other related works along their transport route beyond leasehold area of CCL.  
B) Such consumers will be solely responsible for all hazards, accident, consequences arising out violation of EMP/ factory/ Labour Laws or of any other laws at the time being enforced or due to bandhs/ calls by political or other organizations whatsoever and CCL shall not have any responsibility or liability arising thereof.

\* THE CHARGES SHOWN ARE INDICATIVE ONLY AND ACTUAL AMOUNT AS APPLICABLE WILL HAVE TO BE PAID BY BUYERS AT CCL.

NOTE: CCL RESERVES THE RIGHT TO MAKE ANY AMENDMENT IN THE ABOVE OFFER.

## SPOT E-AUCTION OFFER

SERVICE PROVIDER :MSTC LIMITED  
SALE OF RAW COAL/SLURRY BY ROAD MODE

AUCTION DATE : 17th February'18

SALE POINT	SALE POINT CODE	PRODUCT CODE	GRADE SIZE		QUANTITY FOR E-AUCTION	NOTIFIED PRICE	E-AUCTION RESERVE PRICE
1 RAJRAPPA-SLURRY	1561	S5255		5201-5500	15000	2311	3004
2 KEDLA W. SLURRY (P/L) #	1460	S4952		4901-5200	5000	1757	2284
3 KATHARA SLURRY (HEAP NO. 6)	0873	S5255		5201-5500	10000	2311	3004
4 GIDI-W SLURRY	0460	S4952		4901-5200	15000	1757	2284
5 PIPARWAR SLURRY (MECHANICAL LOADING)	1760	S4346		4301-4600	10000	1228	1596
6 GOVINDPUR PHASE II HEAP NO. 14 EXT. #	2191	N4649	ROM	4601-4900	30000	1368	1778
7 PIPARWAR COAL DUMP HEAP NO. 26 #	2179	N4043	ROM	4001-4300	200000	1145	1489
8 AMRAPALI COAL SALES CENTRE HEAP NO. 7/12/1A/1B #	1120	N3740	ROM (-100 MM)	3701-4000	500000	1063	1382
9 PURNADIH HEAP NO. Q2-4 #	0617	N3740	ROM	3701-4000	20000	1063	1382
10 TAPIN NORTH HEAP NO. 19 #	1461	N4952	ROM	4901-5200	13000	1757	2284
11 GIDI-C HEAP NO. 6 #	2187	N4043	ROM	4001-4300	15000	1145	1489
12 BIRSA PROJECT HEAP NO. 5 #	2189	N4952	ROM	4901-5200	20000	1757	2284
13 AMLO OCP HEAP NO. 11 #	1662	N4346	ROM	4301-4600	5000	1228	1596
14 MAGADH OC HEAP NO. 8/9 #	1126	N3740	ROM	3701-4000	40000	1063	1382
15 BENTI COAL DUMP ASHOKA HEAP NO. 27 #	1777	N4043	ROM	4001-4300	80650	1145	1489
16 TETARIAKHAR HEAP NO. 5 #	2194	N3740	ROM	3701-4000	20000	1063	1382
17 KARMA HEAP NO. 3A #	1359	N5255	ROM	5201-5500	7650	2311	3004
18 SARUBERA UG HEAP NO. 9B #	1360	N3740	ROM	3701-4000	7000	1063	1382
19 URIMARI HEAP NO. 9B #	0312	N3740	ROM	3701-4000	40000	1063	1382
20 BIRSA PROJECT HEAP NO. 4 #	2195	N5558	ROM	5501-5800	16650	2524	3281
21 JHARKHAND OCP HEAP NO. 15E #	1463	22403	W-IV ROM		38250	2300	2990
22 DHORI OC HEAP NO. 1 #	1678	22303	W-III ROM		30000	2750	3575
23 ROHINI OCP HEAP NO. 16 #	2183	N3134	ROM	3101-3400	10000	897	1166
24 BHURKUNDA (SANGAM) HEAP NO. 20 #	2184	N5255	ROM	5201-5500	6000	2311	3004
25 ROHINI OCP HEAP NO. R-2 #	0664	N3437	ROM	3401-3700	30000	980	1274
26 SARUBERA OC HEAP NO. 11 #	1317	22403	W-IV ROM		11450	2300	2990
27 JARANGIDIH OC HEAP NO. 6 #	2196	22403	W-IV ROM		20000	2300	2990
28 TOPA OC HEAP NO. 16E #	1358	22403	W-IV ROM		40750	2300	2990

1256400

## # THROUGH PAYLOADER LOADING

## URGENT AND IMPORTANT :

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- IN ADDITION TO BID PRICE OTHER ADD ON PRICES IF ANY WILL BE RECOVERED , STATUTORY CHARGES AND GOVT. LEVIES WILL BE CHARGED AS APPLICABLE ON THE DATE OF DELIVERY .
- BEFORE PARTICIPATING IN E-AUCTION BIDDERS MUST SATISFY THEMSELVES WITH THE QUALITY OF THE COAL BEING OFFERED FROM A SOURCE.
- IN ADDITION TO ABOVE, GST, SALES TAXES, ROYALTY, SED, EXCISE DUTY, CLEAN ENERGY CESS , COMMITMENT CHARGE , BENEFICIATION CHARGE , SURFACE TRANSPORTATION CHARGES, SIZING CHARGE & ANY OTHER CHARGES AS APPLICABLE WILL HAVE TO BE PAID BY BUYERS AT CCL.
- PRICE BASED ON GCV IS AVAILABLE ON [www.centralcoalfields.in](http://www.centralcoalfields.in). FOR NON-COKING COAL . THE PRICES OF WASHERY GRADE COAL IS AS PER PRICE NOTIFICATION DATED 13-01-2017.
- THE REFUNDS SHALL BE MADE ONLY TO THE A/C NO. AND THE BANK THROUGH WHICH THE COAL VALUE WILL BE DEPOSITED AND AS PER E-MANDATE PROVIDED BY THE CUSTOMER TO CCL .
- EMD FOR ALL TYPES OF COAL WILL BE RS. 200/- PER TONNES .
- ALL SELECTIVE LOADING IRRESPECTIVE OF MEANS OF LOADING AND MODES OF DISPATCH TO BE CONSIDERED AS LOADING OF STEAM SIZED COAL OF +25 MM. THEREFORE , IN CASE OF SELECTIVE LOADING , A STEAM SIZING CHARGE, WHICH IS PRESENTLY RS. 270/- PER TONNE, BE CHARGED ON THE ROM PRICE ON ACCOUNT OF SIZING.
- IN ADDITION TO ABOVE , BENEFICIATION CHARGE BE LEVIED FOR ALL SELECTIVE LOADING . THE BENEFICIATION CHARGE BE THE PRICE DIFFERENCE AS PER THE GRADES IDENTIFIED IN THE GRADE NOTIFICATION OF THE COAL COMPANY FOR STEAM AND ROM RESPECTIVELY.
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- PARTICIPATION OF AUCTION CONSUMERS IN THE BIDDING PROCESS THROUGH THIS NOTICE WILL MEAN THAT THE BIDDER ACCEPTS AND AGREES FOR ALL THE TERMS AND CONDITION OF SCHEME AS WELL AS THIS NOTICE IN TOTALITY .
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NOTE: CCL RESERVES THE RIGHT TO MAKE ANY AMENDMENT IN THE ABOVE OFFER.

GM(M&amp;S)

**SPOT E-AUCTION OFFER**

SERVICE PROVIDER :M JUNCTION LIMITED  
SALE OF RAW COAL BY ROAD MODE

AUCTION DATE : 16th March'18

SALE POINT	SALE PONT CODE	PRODUCT CODE	GRADE SIZE		QUANTITY FOR E-AUCTION	E-AUCTION RESERVE PRICE
1 TETARIKHAR HEAP NO. 7 #	2177	N4346	ROM	4301-4600	40000	1596
2 AMRAPALI COAL SALES CENTRE HEAP NO. 9/13 #	1122	N3740	ROM	3701-4000	300000	1382
3 BHURKUNDA HEAP NO. 13A #	2198	N5255	ROM	5201-5500	4000	3004
4 RELIGARA HEAP NO. 18 #	0443	N5558	ROM	5501-5800	11000	3281
5 SAUNDA HEAP NO. 17 #	0351	N5558	ROM	5501-5800	1000	3281
6 SIRKA HEAP NO. 4 #	0461	N5861	ROM	5801-6100	17650	3558
7 BENTI COAL DUMP ASHOKA HEAP NO. 27 #	1777	N4043	ROM	4001-4300	80300	1489
8 KARMA HEAP NO. 3A #	1359	N5255	ROM	5201-5500	13350	3004
9 GIRIDIH HEAP NO. 1 #	1012	N4649	ROM	4601-4900	5000	1778
10 AMRAPALI COAL SALES CENTRE HEAP NO. 14 #	2178	N4043	ROM	4001-4300	100000	1489
11 SEL. DHORI OC HEAP NO. 7A #	1679	22303	W-III ROM		30000	3575
12 MAGADH OC NEW HEAP #	1124	N3134	ROM	3101-3400	50000	1166
13 CHURI HEAP NO. 9D #	2203	N6164	ROM	6101-6400	1250	3900
14 AMRAPALI COAL SALES CENTRE HEAP NO. 15 #	1127	N4346	ROM	4301-4600	10000	1596
15 SEL. DHORI OC HEAP NO. 1&1A #	2201	N4346	ROM	4301-4600	40000	1596
16 AKK OCP HEAP NO. 3 #	2182	N4952	ROM	4901-5200	25000	2284
17 TAPIN NORTH HEAP NO. 18 #	1462	22403	W-IV ROM		7800	2990
18 PUNDI OC HEAP NO. 1 #	2207	22403	W-IV ROM		15600	2990
19 PURNADIH HEAP NO. Q1-1 #	0616	N3437	ROM	3401-3700	100000	1274

851950

SERVICE PROVIDER :M JUNCTION LIMITED  
SALE OF SURPLUS RAW COKING COAL BY ROAD MODE

AUCTION DATE : 16th March'18

SALE POINT	SALE PONT CODE	PRODUCT CODE	GRADE SIZE		QUANTITY FOR E-AUCTION	E-AUCTION RESERVE PRICE
20 PUNDI (SRCC) HEAP NO. 4 #	1383	22303	W - III ROM		13000	3575

SERVICE PROVIDER :M JUNCTION LIMITED  
SALE OF RAW COAL BY ROAD MODE

AUCTION DATE : 17th March'18

SALE POINT	SALE PONT CODE	PRODUCT CODE	GRADE SIZE		QUANTITY FOR E-AUCTION	E-AUCTION RESERVE PRICE
1 GOVINDPUR PHASE II HEAP NO. 14 EXT. #	2191	N4649	ROM	4601-4900	5000	1778
2 PIPARWAR COAL DUMP HEAP NO. 26 #	2179	N4043	ROM	4001-4300	200000	1489
3 AMRAPALI COAL SALES CENTRE HEAP NO. 7/12/1A/1B #	1120	N3740	ROM (-100 MM)	3701-4000	500000	1382
4 PURNADIH HEAP NO. Q2-4 #	0617	N3740	ROM	3701-4000	30000	1382
5 TAPIN NORTH HEAP NO. 19 #	1461	N4952	ROM	4901-5200	13350	2284
6 GIDI-C HEAP NO. 6 #	2187	N4043	ROM	4001-4300	20000	1489
7 BIRSA PROJECT HEAP NO. 5 #	2189	N4952	ROM	4901-5200	20000	2284
8 MAGADH OC HEAP NO. 8/9 #	1126	N3740	ROM	3701-4000	100000	1382
9 URIMARI HEAP NO. 9B #	0312	N3740	ROM	3701-4000	40000	1382
10 BIRSA PROJECT HEAP NO. 4 #	2195	N5558	ROM	5501-5800	16650	3281
11 SEL. DHORI OC HEAP NO. 1 #	1677	N4346	ROM	4301-4600	40000	1596
12 AMRAPALI COAL SALES CENTRE HEAP NO. 8 #	1119	N4346	ROM (-100 MM)	4301-4600	200000	1596
13 CHURI HEAP NO. 9C	0604	N4649	ROM	4601-4900	200	1778
14 JHARKHAND OCP HEAP NO. 18 #	1414	22403	W-IV ROM		23250	2990
15 GIRIDIH HEAP NO. 12 #	2204	N4952	ROM	4901-5200	20000	2284
16 SEL. DHORI OC HEAP NO. 12 #	1680	22303	W-III ROM		31100	3575
17 BHURKUNDA (SANGAM) HEAP NO. 20 #	2184	N5255	ROM	5201-5500	6000	3004
18 ROHINI OCP HEAP NO. R-2 #	0654	N3437	ROM	3401-3700	40000	1274
19 JARANGIDIH OC HEAP NO. 8 #	2196	22403	W-IV ROM		25000	2990
20 TOPA OC HEAP NO. 16E #	1358	22403	W-IV ROM		41700	2990

2237200

# THROUGH PAYLOADER LOADING

**URGENT AND IMPORTANT :**

- ALL CUSTOMERS TO NOTE , CCL IS PROVIDING RTGS/NEFT FACILITY FOR SUBMISSION OF COAL VALUE . CERTAIN FORMALITIES REGARDING BANK DETAILS ARE TO BE FULFILLED . FOR DETAILS PLEASE VISIT CCL'S WEBSITE [centralcoalfields.in](http://centralcoalfields.in)
- THE PROSPECTIVE BUYERS MAY SATISFY THEMSELVES REGARDING THE STOCKS AT DIFFERENT COLLIERIES/SIDINGS BEFORE PARTICIPATING IN THE AUCTION PROCESS.
- IN ADDITION TO BID PRICE OTHER ADD ON PRICES IF ANY WILL BE RECOVERED , STATUTORY CHARGES AND GOVT. LEVIES WILL BE CHARGED AS APPLICABLE ON THE DATE OF DELIVERY .
- BEFORE PARTICIPATING IN E-AUCTION BIDDERS MUST SATISFY THEMSELVES WITH THE QUALITY OF THE COAL BEING OFFERED FROM A SOURCE.
- IN ADDITION TO ABOVE, GST, SALES TAXES, ROYALTY, SED, EXCISE DUTY, CLEAN ENERGY CESS , COMMITMENT CHARGE , BENEFICIATION CHARGE , SURFACE TRANSPORTATION CHARGES, SIZING CHARGE & ANY OTHER CHARGES AS APPLICABLE WILL HAVE TO BE PAID BY BUYERS AT CCL.
- PRICE BASED ON GCV IS AVAILABLE ON [www.centralcoalfields.in](http://www.centralcoalfields.in). FOR NON-COKING COAL . THE PRICES OF WASHERY GRADE COAL IS AS PER PRICE NOTIFICATION DATED 13-01-2017.
- THE REFUNDS SHALL BE MADE ONLY TO THE A/C NO. AND THE BANK THROUGH WHICH THE COAL VALUE WILL BE DEPOSITED AND AS PER E-MANDATE PROVIDED BY THE CUSTOMER TO CCL .
- EMD FOR ALL TYPES OF COAL WILL BE RS. 200/- PER TONNES .
- ALL SELECTIVE LOADING IRRESPECTIVE OF MEANS OF LOADING AND MODES OF DISPATCH TO BE CONSIDERED AS LOADING OF STEAM SIZED COAL OF +25 MM. THEREFORE , IN CASE OF SELECTIVE LOADING , A STEAM SIZING CHARGE, WHICH IS PRESENTLY RS. 270/- PER TONNE, BE CHARGED ON THE ROM PRICE ON ACCOUNT OF SIZING.
- IN ADDITION TO ABOVE, BENEFICIATION CHARGE BE LEVIED FOR ALL SELECTIVE LOADING . THE BENEFICIATION CHARGE BE THE PRICE DIFFERENCE AS PER THE GRADES IDENTIFIED IN THE GRADE NOTIFICATION OF THE COAL COMPANY FOR STEAM AND ROM RESPECTIVELY.
- THE SELECTIVE LOADING CHARGE FROM THE ROM BE THE SUMMATION OF THE SIZING CHARGE I.e. RS. 270/- PER TONNE AND THE DIFFERENCE OF PRICE ARISING OUT OF THE GRADES OF STEAM AND ROM.
- PARTICIPATION OF AUCTION CONSUMERS IN THE BIDDING PROCESS THROUGH THIS NOTICE WILL MEAN THAT THE BIDDER ACCEPTS AND AGREES FOR ALL THE TERMS AND CONDITION OF SCHEME AS WELL AS THIS NOTICE IN TOTALITY .
- COMPETENT AUTHORITY OF CCL HAS ALLOWED FOR ROUND THE CLOCK LOADING THROUGH TIPPER TRUCKS/ HYWA TO CONSUMERS WHO BOOK ORDERS FOR ONE LAKH TONNES OR MORE AND LOADING THROUGH TIPPER TRUCKS / HYWA WITHIN AGREED TIMELINE OF ROADSAL TO CONSUMERS WHO SHALL BOOK ORDERS FOR 25,000 TONNES OR MORE FROM CCL FROM A SOURCE UNDER EACH E-AUCTION UNDER ROAD/ RCR MODE, IF THEY AGREE TO COMPLY WITH BELOW MENTIONED POINTS :-

- Such e-Auction consumers must have proper arrangement of dust suppression and other related works along their transport route beyond leasehold area of CCL.
- Such consumers will be solely responsible for all hazards, accident, consequences arising out violation of EMP/ factory/ Labour Laws or of any other laws at the time being enforced or due to bands/ calls by political or other organizations whatsoever and CCL shall not have any responsibility or liability arising thereof.

\* THE CHARGES SHOWN ARE INDICATIVE ONLY AND ACTUAL AMOUNT AS APPLICABLE WILL HAVE TO BE PAID BY BUYERS AT CCL.

NOTE: CCL RESERVES THE RIGHT TO MAKE ANY AMENDMENT IN THE ABOVE OFFER.

**Amendment of EC of CPP, M/s UML**

File No-J-13012/122/08-IA.II(T)

Proposal No.- IA/JH/THE/10337/2011

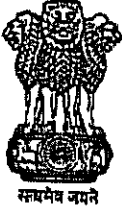
Environmental Clearance Granted to 2X10 MW CPP, M/S Usha Martin Limited  
vide letter no J-13012/122/08-IA.II(T) dated 07.04.2011

Several correspondence/ Discussion with Railway Officials at Ranchi held for Unloading facility of Coal .The chronology of letters are as given below:

- CPP submitted an application (Ref. No.UML/CPP/COALRAIL/11/03,Dated 22.07.2011) to Sr.DTM, South Eastern Railway, Hatia. Railway authority informed M/s UML to contact them after few months. **(Annex: II A,1/3)**
- On 08.05.2012, another Letter Ref. No. UML/CPP/Coal Rail/12/01 was submitted to DOM, Hatia. It is said that there was some modification going on in Tatisilwai Station. It will take some more time for railway siding. **(Annex: II A,2/3)**
- Follow up letters - 3<sup>rd</sup> (Ref. No. UML/CPP/Coal Rail/13/01,dated 05.02.2013) & 4<sup>th</sup> letter (ref. No.UML/CPP/Coal Rail/13/02,datd 11.07.2014), the same assurance was given by Railway Authority. **(Annex: II A,3/3)**
- Follow up letters (ref. No.UML/CPP/Coal Rail/13/2 and 3, dated 11.07.2013 & 18.07.2013) has been forwarded to DRM, Hatia. It is informed that there was no scope for handling coal at Tatisilwai station as such in letter no: O/PL/TIS/UML/13,Dated 24.07.2013**(Annex: II B,1/2 & 2/2, Annex: II C)**
- M/s UML pesued further, in application (Ref .no.UML/CPP/Coal Rail/14/01, Dated 16.09.2014) for any feasibility of coal unloading at the nearest Tatisilwai station. But Railway Authority has not given any commitment on that.

Sl no.		Remarks	Uploaded additional document	Date of correspondence
1	Proposal Submission	Application submitted for EC Amendment via Application ref No-UML/CPP/RANCHI/EC/15/01	23-02-2015	25-02-2018
2	UML letter to	Request to APCCF, MoEF &CC, Regional office Ranchi for Environmental Clearance Certificate via ref no-UML/RANCHI CPP/MOEF/15/01		27-02-2015
3	EAC presentation	Presentation to 36 <sup>th</sup> Expert Appraisal Committee, MOEF, Delhi on 20-05-2015 Minutes of the Meeting (MOM) of EAC on EIA of thermal Power & Coal projects ** Recommendation for EC amendment		20.05.2015
4	MoEF Letter	Copy of letter received from MoEF addressed to Railway Board officials regarding Rail Transportation possibility.		11.08.2015
5	UML reply	Reply to MoEF regarding coal transportation submitted online against letter dt 11.08.2015		24-08-2015
6	MoEF Letter	Reminder letter from MoEF to Railway Board officials regarding 11.08.2015 letter  No copy given to M/s UML.		23-11-2015

7	UML submission	UML submission ref No-UML/PPP/RANCHI/EC/04 as per correspondence with railway (On dated 1-12-2015 & 11-12-2015) regarding MoEF Letter dated 11.08.2015		14-12-2015
8		The reply from Railways to Ministry's letter dated 11.08.2015 is awaited.		09/02/2016
9	MoEF online query	please upload and submit the detailed long term coal transportation plan in light of the railways letters dated 01.12.2015 and 11.12.2015 at the earliest.		25/02/2016 03-03-2016
10	UML reply	Please find attached letter as submitted by M/s UML to Sr. Divisional Operations Manager, South Eastern Railway, D R M Office, Hatia, Ranchi – 834012 for setting up Transportation of inbound Coal through Rail at Tati Silwai Railway Station by September 2020 in compliance to additional information as sought regarding "detailed long term coal transportation plan in light of the railways letters dated 01.12.2015 and 11.12.2015 at the earliest".	<a href="#">Additional letter</a>	18/03/2016
11	MoEF online query	Please submit in detail, in consultation with the Railways, when and how the road transportation of coal can be avoided or minimized for the project.		23/05/2016
12	UML reply	Additional information as sought regarding "When and How" road transportation of coal can be avoided based on discussion with Rlys is attached in our Reply letter dated 04-07-2016	<a href="#">Additional letter</a>	06/07/2016
13	MoEF online query	When will Brinda-Sisai Coal Block commence supplying coal to this CPP? What would be the mode of transportation, distance (road & rail) between the mine and CPP etc. If road transportation is envisaged, when is it planned to be shifted to rail.		11/08/2016
14	UML reply	Details as sought are enclosed with regards to " (1) When will Brinda-Sisai Coal Block commence supplying coal to this CPP? FY 2019-20 (2) What would be the mode of transportation, distance (road & rail) between the mine and CPP etc. - Initially by Road of 200 km and then by rail .(3) If road transportation is envisaged, when is it planned to be shifted to rail." FY 2022-23.	<a href="#">Additional letter</a>	16/08/2016
15	MoEF online query	Please upload and submit the reply of DCE.SER etc. w.r.t the SDOM, SER letter dated 17.06.2016 at the earliest.		21/10/2016
16	UML Letter	Correspondence with SDOM, SE Railways, Ranchi for early reply from DCE,SER		27-10-2016
17		Proposal De- listed due to non reply of query within six months		May 2017
18	UML Letter	Follow up Correspondence for early grant of EC amendment		19-02-2018
19	UML letter	Request for re- open of our proposal on Portal		28-03-2018
20	MOEF online Query	Query regarding additional information for coal sourcing, mode of Transportation, feasibility of coal transportation thru nearest Railhead & progress made till date		13-04-2018
21	UML reply	Additional information as sought regarding " for coal sourcing, mode of Transportation, feasibility of coal transportation thru nearest Railhead & progress made till date "based on discussion with Rlys is attached in our Reply letter dated 24-04-18	<a href="#">Additional letter</a>	24-04-2018
22	UML Letter	Follow up correspondence with SDOM, SE Railways, Ranchi regarding their office letter dated 10.04.2018		15.12.2018



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

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

Dated: 09.10.2019

To

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

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

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

Sir,

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

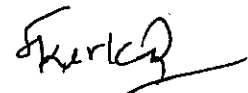
- a) **Ex-post facto permission for sourcing of coal through e-auction and transportation by road for a period of three years i.e. till 31.03.2018;**
- b) **Permission to transport coal by road for further period of three years, i.e. till 31.03.2021; A final decision to allow road permanently will be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

**34% are allowed.**

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

This issues with the approval of the Competent Authority.

Yours faithfully,



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

**Copy to:**

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

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

Director, IA.I

Mr. Tannoy Sinha  
C.P.P.



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

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

Dated: 10.10.2019

Office Order

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

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

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

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

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

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

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

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

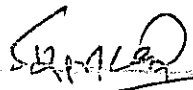
Sr.No	Year	Quantity (MT)
1	FY13	63,782
2	FY14	67,480
3	FY15	1,12,995
4	FY16	1,14,883
5	FY17	1,17,258
6	FY18	1,25,134
Total		6,01,532

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

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

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

This issues with the approval of the Competent Authority.

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

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

*Copy to:*

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

  
Director, IA.I



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 GROUND WATER

### Sample Details

### Client Details

Date & Time of Sampling : 11.09.2019 & 5:30PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : SEPT/DW/ CPP/10	Client Address : Tatisilwai, Ranchi
Type of Sample : GROUND WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 11.09.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 15.09.2019
Testing Condition : 23.9°C, 57.2%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC54041900000268F	Date of Report : 25.09.2019

### REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		6.50 to 8.50	7.40	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr	500.00	74.0	APHA 22 <sup>nd</sup> Edition-2540 C
3	Turbidity	NTU	1.00	0.76	APHA 22 <sup>nd</sup> Edition-2130 B
4	Alkalinity	Mg/ltr	200.00	70.0	IS:3025, (part-23) 2014
5	Acidity	Mg/ltr		9.0	IS:3025, (part-22) 2014
6	Total hardness (as CaCO <sub>3</sub> )	Mg/ltr	300.00	140.0	IS:3025, (part-21) 2014
7	Calcium (as CaCO <sub>3</sub> )	Mg/ltr	75.00	92.0	IS:3025, (part-40) 2014
8	Magnesium (as CaCO <sub>3</sub> )	Mg/ltr	30.00	48.0	APHA 22 <sup>nd</sup> Edition -3500mg B
9	Chloride	ivg/ltr	250.00	56.39	IS:3025, (part-32) 2014
10	Sulphate	Mg/ltr	200.00	101.33	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	0.90	IS:3025, (part-53) 2014
13	Nitrate	Mg/ltr	45.00	1.40	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		8.34	IS:3025, (part-35) 2014
16	Temperature	°C		24.0	IS:3025, (part-9) 2006

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

### Declaration:-

1. Results reported are valid at the time of testing and under the stated testing condition.
2. Result in the report refers to only the sample submitted by the client.
3. This report shall will be reproduced expect in full and without the written permission of environmental laboratory, CPP, UML, Ranchi.

TESTED BY  
(Manish Kumar)

CHECKED BY  
(Tanmay Roy)

AUTHORISED BY  
(Tanmay Roy)  
CPP (2X10MW)  
USHAMARTIN LTD.  
TATISILWAI, RANCHI

## TEST REPORT

### Sample Details

### Client Details

Date & Time of Sampling : 11.09.2019 & 5:30PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : SEPT/DW/ CPP/10	Client Address : Tatisilwai, Ranchi
Type of Sample : GROUND WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 11.09.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 15.09.2019
Testing Condition : 23.9°C, 57.2%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000268F	Date of Report : 25.09.2019
Date & Time of Sampling : 11.09.2019 & 5:30PM	Client Name : Usha Martin Limited (CPP Div)



## TEST REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Colour	Hazen	5.00	<5.00
2	Odour		AGREEABLE	AGREEABLE
3	Taste		AGREEABLE	AGREEABLE
4	Fluoride	Mg/ltr	1.00	0.30
5	Manganese	Mg/ltr	0.10	0.096
6	Mercury	Mg/ltr	0.001	<0.0005
7	Lead	Mg/ltr	0.01	<0.005
8	Zinc	Mg/ltr	5.00	2.57

IS: 10500(2012): Drinking Water Specification

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TESTED BY  
(Manish Kumar)

CHECKED BY  
(Tanmay Roy)

AUTHORISED BY  
(Tanmoy Sinha)



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

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## TEST REPORT

### ETP WATER

#### Sample Details

#### Client Details

Date & Time of Sampling : 11.09.2019 & 5:42PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : SEPT/EW/ CPP/11	Client Address : Tatisilwai, Ranchi
Type of Sample : TREATED ETP WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 11.09.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 15.09.2019
Testing Condition : 23.9°C , 57%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000269F	Date of Report : 25.09.2019

## REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		5.50 – 9.00	7.48	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr		496	APHA 22 <sup>nd</sup> Edition-2540 C
3	Total Suspended solids	Mg/ltr	100.00	2.88	APHA 22 <sup>nd</sup> Edition-2540 D
4	Dissolved oxygen	Mg/ltr		1.6	IS:3025, (part-38) 2014
5	Oil & Grease	Mg/ltr	10.00	9.67	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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*Manish Kumar*

TESTED BY  
(Manish Kumar)

*Tanmay Roy*

CHECKED BY  
(Tanmay Roy)

*Tanmoy Sinha*

AUTHORISED BY  
(Tanmoy Sinha)

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

## TEST REPORT ETP WATER

### Sample Details

### Client Details

Date & Time of Sampling : 11.09.2019 @ 5:42PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : SEPT/EW/CPP/11	Client Address : Tatisilwai, Ranchi
Type of Sample : TREATED ETP WATER	Client Code : UML/CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 11.09.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 15.09.2019
Testing Condition : 23.9°C, 57%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000269F	Date of Report : 25.09.2019

### TEST REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Lead	Mg/ltr	0.10	<0.10
2	Zinc	Mg/ltr	5.00	0.17
3	Phosphate	Mg/ltr	5.00	0.94
4	Chloride	Mg/ltr	-	865.0
5	BOD, 3 days at 27 °C	Mg/ltr	30.00	2.2
6	COD	Mg/ltr	250.00	74.0
7	Iron	Mg/ltr	3.00	2.64
8	Manganese	Mg/ltr	2.00	0.32

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

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TESTED BY  
(Manish Kumar)



CHECKED BY  
(Tanmay Roy)



AUTHORISED BY  
(Tanmoy Sinha)

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

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

**Sample Details**

**Client Details**

Date & Time of Sampling : 11.09.2019 & 4:40PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : SEPT/DW/ CPP/09	Client Address : Tatisilwai, Ranchi
Type of Sample : DRINKING WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Anil Kumar Pradhan	Date of Receipt of Sample : 11.09.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 15.09.2019
Testing Condition : 23.9°C, 57.2%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000267F	Date of Report : 25.09.2019

**REPORT**

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		6.50 to 8.50	6.86	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr	500.00	24.0	APHA 22 <sup>nd</sup> Edition-2540 C
3	Turbidity	NTU	1.00	0.16	APHA 22 <sup>nd</sup> Edition-2130 B
4	Alkalinity	Mg/ltr	200.00	16.0	IS:3025, (part-23) 2014
5	Acidity	Mg/ltr		9.0	IS:3025, (part-22) 2014
6	Total hardness (as CaCO <sub>3</sub> )	Mg/ltr	300.00	20.0	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	8.0	APHA 22 <sup>nd</sup> Edition-3500mg B
9	Chloride	Mg/ltr	250.00	16.50	IS:3025, (part-32) 2014
10	Sulphate	Mg/ltr	200.00	1.28	APHA 22 <sup>nd</sup> Edition-4500 So <sub>4</sub> 2
11	Residual free chlorine	Mg/ltr	0.20	<0.10	IS:3025, (part-26) 2014
12	Iron	Mg/ltr	0.30	< 0.075	IS:3025, (part-53) 2014
13	Nitrate	Mg/ltr	45.00	0.44	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		0.50	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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TESTED BY  
(Manish Kumar)



CHECKED BY  
(Tanmay Roy)



AUTHORISED BY

## TEST REPORT DRINKING WATER

### Sample Details

### Client Details

Date & Time of Sampling : 11.09.2019 & 4:40PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : SEPT/DW/CPP/09	Client Address : Tatisilwai, Ranchi
Type of Sample : DRINKING WATER	Client Code : UML/CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Anil Kumar Pradhan	Date of Receipt of Sample : 11.09.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 15.09.2019
Testing Condition : 23.9°C, 57.2%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC54041900000267F	Date of Report : 25.09.2019

### TEST REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Colour	Hazen	5.00	<5.00
2	Odour		AGREEABLE	AGREEABLE
3	Taste		AGREEABLE	AGREEABLE
4	Fluoride	Mg/ltr	1.00	0.019
5	Manganese	Mg/ltr	0.10	0.084
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)



CHECKED BY  
(Tanmay Roy)



AUTHORISED BY  
(Tanmoy Sinha)

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

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## TEST REPORT STACK MONITORING

### Sample Details

### Client Details

Date & Time of Sampling : 30.09.2019 & 2:35 PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/SEPT/140/20	Client Address : Tatisilwai, Ranchi
Type of Sample : STACK	Client Code : UML/CPP/03
Duration of Sampling : 1.5 hrs	State : Jharkhand
Sample Drawn by : Mr SURAJ KUMAR	Date of Receipt of Sample : 30.09.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 30.09.19 - 01.10.19
Testing Condition : 24.2°C, 58%RS	Test Performed : At Permanent Lab
LAB REPORT NO : TC540419000000290F	Date of Report : 12.10.2019

### TEST REPORT

Sl. No.	Description	Unit	Desirable limit	Result	Test Method
1	Location			ESP OUT-LET	
2	Area of Stack	(M <sup>2</sup> )		1.485	
3	Temperature of flue gas	(°C)		109	
4	Average Velocity	(m/s)		18.7	
6	Particulate matter	(mg/Nm <sup>3</sup> )	50.00	41.48	IS 11255, (part-1) 1985 reaffirmed 2003
7	Sulphur Dioxide	(mg/Nm <sup>3</sup> )	350.00	203.51	IS 11255, (part-2) 1985 reaffirmed 2003
8	Nitrogen Oxides	(mg/Nm <sup>3</sup> )	350.00	173.73	IS 11255, (part-7) 2005

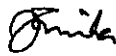
Note: - General Emission standards as per Gazette of India, published by ministry of Environment & forests, 19<sup>th</sup> May, 1993 are for PM- 150 mg/Nm<sup>3</sup>.

Declaration:-

1. Results reported are valid at the time of testing and under the stated testing condition.
2. Result in the report refers to only the sample submitted by the client.
3. This report shall will be reproduced exact in full and without the written permission of environmental laboratory, CPP, UML, Ranchi

  
TESTED BY  
(Manish Kumar)

  
CHECKED BY  
(Tanmay Roy)

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



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 AMBIENT AIR MONITORING

### Sample Details

Date & Time of Sampling : 30.09.2019 & 1:10 PM

Sample ID : CPP/ENV/SEPT/SLF/19

Type of Sample : Ambient Air

Duration of Sampling : 24 hrs

Sample Drawn by : Mr SURAJ KUMAR

Sample Plan Reference : UML/DOC/110

Testing Condition : 25.1°C, 60%RS

UNIQUE LAB REPORT NO : TC540419000000289F

### Client Details

Client Name : Usha Martin Limited (CPP Div)

Client Address : Tatisilwai, Ranchi

Client Code : UML/ CPP/03

State : Jharkhand

Date of Receipt of Sample : 01.10.2019

Date of testing : 01.10.2019

Test Performed : At Permanent Lab

Date of Report : 12.10.2019

### REPORT

Sl.No.	Sample Location	Parameter	Unit	Desirable limit *	Results	Test Method
1	SLF	Particulate Matter PM2.5	µg/M <sup>3</sup>	≤60.00	40.41	SOP/UML/WT/02 Based on CPCB guideline Vol-I : 2012
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	65.44	
3		Sulphur Dioxide	µg/M <sup>3</sup>	≤80.00	11.67	
4		Nitrogen Dioxide	µg/M <sup>3</sup>	≤80.00	<10.00	

Norms: National Ambient Air Quality Standards as per CPCB vide notification dated 18<sup>th</sup> November, 2009 for industrial, Residential, Rural and other area are followed:

Declaration:-

1. Results reported are valid at the time of testing and under the stated testing condition.
2. Result in the report refers to only the sample mentioned above in Sample ID.
3. There is no Addition to/ Deviation from/ Exclusion from the Test Method mentioned above.
4. This report shall be reproduced except in full and without the written permission of environmental laboratory, CPP, UML, Ranchi

TESTED BY  
Anish Kumar

CHECKED BY  
(Tanmay Roy)

AUTHORISED BY  
(Tanmoy Sinha)  
CPP (2 X 10MW)  
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ENVIRONMENTAL LABORATORY, 2X10 MW CPP, TATISILWAI, RANCHI (JHARKHAND) – 835103

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## TEST REPORT AMBIENT AIR MONITORING

### Sample Details

### Client Details

Date & Time of Sampling : 29.09.2019 & 1:00 PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/SEPT/MTG/18	Client Address : Tatisilwai, Ranchi
Type of Sample : Ambient Air	Client Code : UML/CPP/03
Duration of Sampling : 24 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 30.09.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 30.09.2019
Testing Condition : 24.9°C, 60%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000288F	Date of Report : 12.10.2019

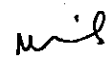
### REPORT

Sl.No.	Sample Location	Parameter	Unit	Desirable limit *	Results	Test Method
1	MATERIAL GATE	Particulate Matter PM2.5	µg/M <sup>3</sup>	≤60.00	39.67	SOP/UML/WT/02 Based on CPCB guideline Vol-1 : 2012
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	55.62	IS:5182 (PT - 23) : 2006
3		Sulphur Dioxide	µg/M <sup>3</sup>	≤80.00	<10.00	IS:5182 (PT - 2) : 1999 Reaffirmed 2001
4		Nitrogen Dioxide	µg/M <sup>3</sup>	≤80.00	<10.00	IS:5182 (PT - 6) : 2006


\* Norms: National Ambient Air Quality Standards as per CPCB vide notification dated 18<sup>th</sup> November, 2009 for industrial, Residential, Rural and other area are followed:

#### Declaration:-

- Results reported are valid at the time of testing and under the stated testing condition.
- Result in the report refers to only the sample mentioned above in Sample ID.
- There is no Addition to/ Deviation from/ Exclusion from the Test Method mentioned above.
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TESTED BY  
(Manish Kumar)

  
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(Tanmay Roy)

  
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CPP (2 X 10 MW)  
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**TEST REPORT**  
**AMBIENT AIR MONITORING**

**Sample Details**

**Client Details**

Date & Time of Sampling : 28.09.2019 & 12:25 PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/SEPT/MG/17	Client Address : Tatisilwai, Ranchi
Type of Sample : Ambient Air	Client Code : UML/CPP/03
Duration of Sampling : 24 hrs	State : Jharkhand
Sample Drawn by : Mr SURAJ KUMAR	Date of Receipt of Sample : 29.09.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 29.09.2019
Testing Condition : 25.1°C , 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000287F	Date of Report : 12.10.2019

**REPORT**


Sl.No.	Sample Location	Parameter	Unit	Desirable limit *	Results	Test Method
1	MAIN GATE	Particulate Matter PM2.5	µg/M <sup>3</sup>	≤60.00	48.73	SOP/UML/WT/02 Based on CPCB guideline Vol-I : 2012
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	66.08	IS:5182 (PT – 23) : 2006
3		Sulphur Dioxide	µg/M <sup>3</sup>	≤80.00	12.08	IS:5182 (PT – 2) : 1999 Reaffirmed 2001
		Nitrogen Dioxide	µg/M <sup>3</sup>	≤80.00	11.53	IS:5182 (PT – 6) : 2006

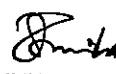
\* Norms: National Ambient Air Quality Standards as per CPCB vide notification dated 18<sup>th</sup> November, 2009 for industrial, Residential, Rural and other area are followed:

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## TEST REPORT ETP WATER

### Sample Details

### Client Details

Date & Time of Sampling : 03.08.2019 & 5PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : AUG/EW/ CPP/11	Client Address : Tatisilwai, Ranchi
Type of Sample : TREATED ETP WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 03.08.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 07.08.2019
Testing Condition : 25°C, 48%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000255F	Date of Report : 25.08.2019


### REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		5.50 - 9.00	8.23	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr		1180	APHA 22 <sup>nd</sup> Edition-2540 C
3	Total Suspended solids	Mg/ltr	100.00	21.30	APHA 22 <sup>nd</sup> Edition-2540 D
4	Dissolved oxygen	Mg/ltr		6.60	IS:3025, (part-38) 2014
5	Oil & Grease	Mg/ltr	10.00	10.0	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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TESTED BY  
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CHECKED BY  
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**TEST REPORT**  
**ETP WATER**

Sample Details		Client Details	
Date & Time of Sampling	: 03.08.2019 & 5PM	Client Name	: Usha Martin Limited(CPP Div)
Sample ID	: AUG/EW/CPP/11	Client Address	: Tatisilwai, Ranchi
Type of Sample	: TREATED ETP WATER	Client Code	: UML/CPP/03
Duration of Sampling	: 1 hrs	State	: Jharkhand
Sample Drawn by	: Mr Suraj Kumar	Date of Receipt of Sample	: 03.08.2019
Sample Plan Reference	: UML/DOC/110	Date of testing	: 07.08.2019
Testing Condition	: 25°C, 48%RS	Test Performed	: At Permanent Lab
UNIQUE LAB REPORT NO	: TC540419000000255F	Date of Report	: 25.08.2019

**TEST REPORT**

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Lead	Mg/ltr	0.10	<0.10
2	Zinc	Mg/ltr	5.00	0.84
3	Phosphate	Mg/ltr	5.00	0.55
4	Chloride	Mg/ltr	-	395.0
5	BOD, 3 days at 27 °C	Mg/ltr	30.00	4.8
6	COD	Mg/ltr	250.00	25.0
7	Iron	Mg/ltr	3.00	2.11
8	Manganese	Mg/ltr	2.00	0.64

\*\* 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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*mil*  
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CHECKED BY  
(Tanmay Roy)

*Sinha*  
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(Tanmoy Sinha)

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TC - 5404

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## TEST REPORT GROUND WATER

### Sample Details

### Client Details

Date & Time of Sampling : 03.08.2019 & 5PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : AUG/DW/ CPP/10	Client Address : Tatisilwai, Ranchi
Type of Sample : GROUND WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 03.08.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 07.08.2019
Testing Condition : 25°C, 48%RS	Test Performed : At Permanent Lab
LABORATORY LAB REPORT NO : TC540419000000254F	Date of Report : 25.08.2019

### 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	800.0	APHA 22 <sup>nd</sup> Edition-2540 C
3	Turbidity	NTU	1.00	24.9	APHA 22 <sup>nd</sup> Edition-2130 B
4	Alkalinity	Mg/ltr	200.00	8.0	IS:3025, (part-23) 2014
5	Acidity	Mg/ltr		21.0	IS:3025, (part-22) 2014
6	Total hardness (as CaCO <sub>3</sub> )	Mg/ltr	300.00	212.0	IS:3025, (part-21) 2014
7	Calcium (as CaCO <sub>3</sub> )	Mg/ltr	75.00	164.0	IS:3025, (part-40) 2014
8	Magnesium (as CaCO <sub>3</sub> )	Mg/ltr	30.00	48.0	APHA 22 <sup>nd</sup> Edition -3500mg B
9	Chloride	mg/ltr	250.00	148.0	IS:3025, (part-32) 2014
10	Sulphate	Mg/ltr	200.00	124.4	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	0.25	IS:3025, (part-53) 2014
13	Nitrate	Mg/ltr	45.00	685.14	IS:3025, (part-39) 2014
14	Nitrite	Mg/ltr		0.44	APHA 22 <sup>nd</sup> Edition 4500No <sub>2</sub> B
15	Silica	Mg/ltr		1.95	IS:3025, (part-35) 2014
16	Temperature	°C		24.9	IS:3025, (part-9) 2006

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

### Declaration:-

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*Manish Kumar*

TESTED BY  
(Manish Kumar)

*Tanmay Roy*

CHECKED BY  
(Tanmay Roy)

*Tanmay Sinha*

AUTHORISED BY  
(Tanmay Sinha)

USHAMARTIN LTD.  
TATISIL WAI, RANCHI

## TEST REPORT

### Sample Details

### Client Details

Date & Time of Sampling : 12.06.2019 & 11AM	Client Name : Usha Martin Limited(CPP Div)
Date & Time of Sampling : 03.08.2019 & 5PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : AUG/DW/ CPP/10	Client Address : Tatisilwai, Ranchi
Type of Sample : GROUND WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 03.08.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 07.08.2019
Testing Condition : 25°C, 48%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000254F	Date of Report : 25.08.2019

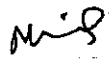
## TEST REPORT


Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Colour	Hazen	5.00	<5.00
2	Odour			
3	Taste		AGREEABLE	AGREEABLE
4	Fluoride		AGREEABLE	AGREEABLE
5	Manganese	Mg/ltr	1.00	0.029
6	Mercury	Mg/ltr	0.10	0.098
7	Lead	Mg/ltr	0.001	<0.0005
8	Zinc	Mg/ltr	0.01	<0.005
			5.00	2.40

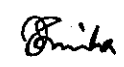
\*\* IS: 10500(2012): Drinking Water Specification

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CHECKED BY  
(Tanmay Roy)

  
AUTHORISED BY  
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TC - 5404

## TEST REPORT DRINKING WATER

### Sample Details

### Client Details

Date & Time of Sampling : 03.08.2019 & 5PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : AUG/DW/ CPP/09	Client Address : Tatisilwai, Ranchi
Type of Sample : DRINKING WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 03.08.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 07.08.2019
Testing Condition : 25°C, 48%RS	Test Performed : At Permanent Lab
MOIQUÉ LAB REPORT NO : TC540419000000253F	Date of Report : 25.08.2019

### REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		6.50 to 8.50	6.73	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr	500.00	40.0	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	8.0	IS:3025, (part-23) 2014
5	Acidity	Mg/ltr		< 1.0	IS:3025, (part-22) 2014
6	Total hardness (as CaCO <sub>3</sub> )	Mg/ltr	300.00	32.0	IS:3025, (part-21) 2014
7	Calcium (as CaCO <sub>3</sub> )	Mg/ltr	75.00	20.0	IS:3025, (part-40) 2014
8	Magnesium (as CaCO <sub>3</sub> )	Mg/ltr	30.00	12.0	APHA 22 <sup>nd</sup> Edition -3500mg B
9	Chloride	mg/ltr	250.00	9.0	IS:3025, (part-32) 2014
10	Sulphate	Mg/ltr	200.00	1.17	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	7.50	IS:3025, (part-39) 2014
14	Nitrite	Mg/ltr		< 0.02	APHA 22 <sup>nd</sup> Edition 4500NO <sub>2</sub> B
15	Silica	Mg/ltr		0.94	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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TESTED BY  
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(Tanmay Roy)

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## TEST REPORT DRINKING WATER

### Sample Details

### Client Details

Date & Time of Sampling : 03.08.2019 & 5PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : AUG/DW/ CPP/09	Client Address : Tatisilwai, Ranchi
Type of Sample : DRINKING WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 03.08.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 07.08.2019
Testing Condition : 25°C, 48%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000253F	Date of Report : 25.08.2019

### TEST REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Colour	Hazen	5.00	<5.00
2	Odour		AGREEABLE	AGREEABLE
3	Taste		AGREEABLE	AGREEABLE
4	Fluoride	Mg/ltr	1.00	0.015
5	Manganese	Mg/ltr	0.10	0.079
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

### Conclusion:-

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## TEST REPORT ETP WATER

### Sample Details

### Client Details

Date & Time of Sampling : 12.06.2019 & 11AM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : JUN/EW/ CPP/11	Client Address : Tatisilwai, Ranchi
Type of Sample : TREATED ETP WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suroj Kumar	Date of Receipt of Sample : 12.06.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 13.06.2019
Testing Condition : 25°C, 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000210F	Date of Report : 20.06.2019


### REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		5.50 – 9.00	8.2	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr		1350	APHA 22 <sup>nd</sup> Edition-2540 C
3	Total Suspended solids	Mg/ltr	100.00	4.99	APHA 22 <sup>nd</sup> Edition-2540 D
4	Dissolved oxygen	Mg/ltr		11.6	IS:3025, (part-38) 2014
5	Oil & Grease	Mg/ltr	10.00	3.66	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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AUTHORISED BY  
( Tanmoy Sinha )

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**TEST REPORT**  
**ETP WATER**

**Sample Details**

**Client Details**

Date & Time of Sampling : : 12.06.2019 & 11AM	Client Name : Usha Martin Limited(WWR Div)
Sample ID : JUN/EW/ CPP/11	Client Address : Tatisilwai, Ranchi
Type of Sample : TREATED ETP WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suroj Kumar	Date of Receipt of Sample : 12.06.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 13.06.2019
Testing Condition : 25°C, 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000210F	Date of Report : 20.06.2019

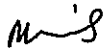
**TEST REPORT**

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Lead	Mg/ltr	0.10	<0.10
2	Zinc	Mg/ltr	5.00	2.09
3	Phosphate	Mg/ltr	5.00	1.34
4	Chloride	Mg/ltr	-	284
5	BOD, 3 days at 27 °C	Mg/ltr	30.00	12.00
6	COD	Mg/ltr	250.00	36.00
7	Iron	Mg/ltr	3.00	1.94
8	Manganese	Mg/ltr	2.00	0.59

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

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## TEST REPORT GROUND WATER

### Sample Details

### Client Details

Date & Time of Sampling :: 12.06.2019 & 11AM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : JUN/DW/ CPP/10	Client Address : Tatisilwai, Ranchi
Type of Sample : GROUND WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 12.06.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 13.06.2019
Testing Condition : 25°C, 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000209F	Date of Report : 20.06.2019

### REPORT


Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		6.50 to 8.50	7.79	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr	500.00	1338.0	APHA 22 <sup>nd</sup> Edition-2540 C
3	Turbidity	NTU	1.00	5.96	APHA 22 <sup>nd</sup> Edition-2130 B
4	Alkalinity	Mg/ltr	200.00	218.00	IS:3025, (part-23) 2014
5	Acidity	Mg/ltr		22.00	IS:3025, (part-22) 2014
6	Total hardness (as CaCO <sub>3</sub> )	Mg/ltr	300.00	258	IS:3025, (part-21) 2014
7	Calcium (as CaCO <sub>3</sub> )	Mg/ltr	75.00	224.00	IS:3025, (part-40) 2014
8	Magnesium (as CaCO <sub>3</sub> )	Mg/ltr	30.00	34.00	APHA 22 <sup>nd</sup> Edition -3500mg B
9	Chloride	Mg/ltr	250.00	155.75	IS:3025, (part-32) 2014
10	Sulphate	Mg/ltr	200.00	244.46	APHA 22 <sup>nd</sup> Edition-4500 So <sub>4</sub> 2
11	Residual free chlorine	Mg/ltr	0.20	<0.10	IS:3025, (part-26) 2014
12	Iron	Mg/ltr	0.30	1.21	IS:3025, (part-53) 2014
13	Nitrate	Mg/ltr	45.00	7.24	IS:3025, (part-39) 2014
14	Nitrite	Mg/ltr		2.35	APHA 22 <sup>nd</sup> Edition-4500No <sub>2</sub> B
15	Silica	Mg/ltr		19.2	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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 TESTED BY  
 (Manish Kumar)

  
 CHECKED BY  
 (Tanmay Roy)

  
 AUTHORISED BY  
 (Tanmay Saha)  
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 TATISIL WAI, RANCHI  
 JHARKHAND, PIN 835103

**TEST REPORT**  
**GROUND WATER**

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

Date & Time of Sampling :: 12.06.2019 & 11AM	Client Name :Usha Martin Limited(CPP Div)
Sample ID : JUN/DW/ CPP/10	Client Address : Tatisilwai, Ranchi
Type of Sample : DRINKING WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1hrs	State : Jharkhand
Sample Drawn by : Mr Suroj Kumar	Date of Receipt of Sample : 12.06.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 13.06.2019
Testing Condition : 25°C , 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000209F	Date of Report : 20.05.2019

**TEST REPORT**

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Colour	Hazen	5.00	<5.00
2	Odour		AGREEABLE	AGREEABLE
3	Taste		AGREEABLE	AGREEABLE
4	Fluoride	Mg/ltr	1.00	0.019
5	Manganese	Mg/ltr	0.10	0.094
6	Mercury	Mg/ltr	0.001	<0.0005
7	Lead	Mg/ltr	0.01	<0.005
8	Zinc	Mg/ltr	5.00	<0.400

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## TEST REPORT DRINKING WATER

### Sample Details

### Client Details

Date & Time of Sampling : 12.06.2019 & 11AM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : JUN/DW/ CPP/09	Client Address : Tatisilwai, Ranchi
Type of Sample : DRINKING WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 12.06.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 13.06.2019
Testing Condition : 25°C, 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000208F	Date of Report : 20.06.2019


### REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		6.50 to 8.50	6.92	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr	500.00	26.00	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	04.00	IS:3025, (part-23) 2014
5	Acidity	Mg/ltr		10.20	IS:3025, (part-22) 2014
6	Total hardness (as CaCO <sub>3</sub> )	Mg/ltr	300.00	16.00	IS:3025, (part-21) 2014
7	Calcium (as CaCO <sub>3</sub> )	Mg/ltr	75.00	12.00	IS:3025, (part-40) 2014
8	Magnesium (as CaCO <sub>3</sub> )	Mg/ltr	30.00	04.00	APHA 22 <sup>nd</sup> Edition -3500mg B
9	Chloride	Mg/ltr	250.00	17.00	IS:3025, (part-32) 2014
10	Sulphate	Mg/ltr	200.00	7.82	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	0.364	IS:3025, (part-53) 2014
13	Nitrate	Mg/ltr	45.00	5.68	IS:3025, (part-39) 2014
14	Nitrite	Mg/ltr		0.437	APHA 22 <sup>nd</sup> Edition-4500No <sub>2</sub> B
15	Silica	Mg/ltr		1.3	IS:3025, (part-35) 2014
16	Temperature	°C		23.2	IS:3025, (part-9) 2006

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

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CHECKED BY  
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AUTHORISED BY

(Tanmay Roy) (25/06/2019)  
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**TEST REPORT**  
**DRINKING WATER**

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

Date & Time of Sampling : : 12.06.2019 & 11AM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : JUN/DW/ CPP/09	Client Address : Tatisilwai, Ranchi
Type of Sample : DRINKING WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 12.06.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 13.05.2019
Testing Condition : 25°C , 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000208F	Date of Report : 20.06.2019


**TEST REPORT**


Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Colour	Hazen	5.00	<5.00
2	Odour		AGREEABLE	AGREEABLE
3	Taste		AGREEABLE	AGREEABLE
4	Fluoride	Mg/ltr	1.00	0.011
5	Manganese	Mg/ltr	0.10	0.077
6	Mercury	Mg/ltr	0.001	<0.0005
7	Lead	Mg/ltr	0.01	<0.005
8	Zinc	Mg/ltr	5.00	<0.400

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## SUMMARISED RESULTS OF NOISE MONITORING AT CPP USHA MARTIN

### Sample Details

### Client Details

Date of Sampling	: 09.06.2019	Client Name	: Usha Martin Limited (CPP)
Sample ID	: JUN/CPP/NOS/04	Client Address	: Tatisilwai, Ranchi , 835103
Sample Drawn by	: Lab representative	State	: Jharkhand
Date of Report	: 20.06.2019	Type of Sample	: Noise
UNIQUE LAB REPORT NO	: TC540419000000214F	Sample Description	: Measurement of Noise at CPP Division

### TEST REPORT OF NOISE LEVEL

Monitoring Date	09.06.2019	
Station Location	Noise Results in dB(A)	
	DAY TIME (6:00AM TO 6:00PM)	NIGHT TIME (6:00PM TO 6:00AM)
CPP MAIN GATE	66.3	63.6
CPP WTP AREA	69.5	63.4
CPP BOILER AREA	76.5	75.4
CPP ADM BUILDING	66.6	62.9
CPP COAL YARD AREA	54.4	50.1

### 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 OF COAL

### Sample Details

### Client Details

Date & Time of Sampling	: 27.05.2019 & 7:40AM	Client Name	: Usha martin limited (CPP)
Sample ID	: CPP/MAY/01	Client Address	: Tatisilwai, Ranchi , 835103
Date of Receipt	: 27.05.2019	State	: Jharkhand
Sample Drawn by	: Lab representative	Type of Sample	: Coal
Date of Report	: 30.05.2019	Sampling method	: Grab sampling
Unique Lab report No	: TC54041900000190F	Sample Description	: Coal Sample at UML CPP Division


### COAL TEST REPORT

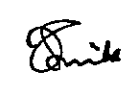
Sl.no.	Analysis	unit	Result	Test method
1	MOISTURE	%	2.21	IS : 1350 (part-1) 1984 RA 2013
2	ASH	%	40.30	IS : 1350 (part-1) 1984 RA 2013
3	VM	%	21.80	IS : 1350 (part-1) 1984 RA 2013
4	GCV	Kcal/kg	3840.76	IS : 1350 (part-2) 1970 RA 2015

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## TEST REPORT AMBIENT AIR MONITORING

### Sample Details

### Client Details

Date & Time of Sampling : 25.05.2018 & 7PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/MAY/SLE/04	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 Anil kr. Pradhan	Date of Receipt of Sample : 25.05.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 26.05.2019
Testing Condition : 25°C, 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540418000000188F	Date of Report : 30.05.2019

### REPORT

Sl.No.	Sample Location	Parameter	Unit	Desirable limit *	Results	Test Method
1	SLF	Particulate Matter PM2.5	µg/M <sup>3</sup>	≤60.00	49.47	SOP/UML/WT/02 Based on CPCB guideline Vol-I : 2012
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	73.08	IS:5182 (PT - 23) : 2006
3		Sulphur Dioxide	µg/M <sup>3</sup>	≤80.00	27.08	IS:5182 (PT - 2) : 1999 Reaffirmed 2001
4		Nitrogen Dioxide	µg/M <sup>3</sup>	≤80.00	20.43	IS:5182 (PT - 6) : 2006

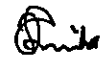
\* Norms: National Ambient Air Quality Standards as per CPCB vide notification dated 18<sup>th</sup> November, 2009 for industrial, Residential, Rural and other area are followed:

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## TEST REPORT AMBIENT AIR MONITORING

### Sample Details

### Client Details

Date & Time of Sampling : 23.05.2018 & 6PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/MAY/MTG/03	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 : 23.05.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 24.05.2019
Testing Condition : 25°C, 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540418000000187F	Date of Report : 30.05.2019

### REPORT

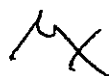
Sl.No.	Sample Location	Parameter	Unit	Desirable limit *	Results	Test Method
1	MATERIAL GATE	Particulate Matter PM2.5	µg/M <sup>3</sup>	≤60.00	60.07	SOP/UML/WT/02 Based on CPCB guideline Vol-I : 2012
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	76.42	IS:5182 (PT - 23) : 2006
3		Sulphur Dioxide	µg/M <sup>3</sup>	≤80.00	23.37	IS:5182 (PT - 2) : 1999 Reaffirmed 2001
4		Nitrogen Dioxide	µg/M <sup>3</sup>	≤80.00	20.31	IS:5182 (PT - 6) : 2006

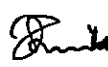
\* Norms: National Ambient Air Quality Standards as per CPCB vide notification dated 18<sup>th</sup> November, 2009 for industrial, Residential, Rural and other area are followed:

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## TEST REPORT AMBIENT AIR MONITORING

### Sample Details

### Client Details

Date & Time of Sampling : 27.05.2018 & 5:15 PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/MAY/MNG/05	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 Anil kr. Pradhan	Date of Receipt of Sample : 27.05.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 28.05.2019
Testing Condition : 25°C , 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC54041800000189F	Date of Report : 30.05.2019

### REPORT

Sl.No.	Sample Location	Parameter	Unit	Desirable limit *	Results	Test Method
1	MAIN GATE	Particulate Matter PM2.5	µg/M <sup>3</sup>	≤60.00	46.62	SOP/UML/WT/02 Based on CPCB guideline Vol-I : 2012
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	82.58	IS:5182 (PT – 23) : 2006
3		Sulphur Dioxide	µg/M <sup>3</sup>	≤80.00	16.09	IS:5182 (PT – 2) : 1999 Reaffirmed 2001
4		Nitrogen Dioxide	µg/M <sup>3</sup>	≤80.00	20.91	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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(Tanmoy Sinha)

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## TEST REPORT AMBIENT AIR MONITORING

### Sample Details

### Client Details

Date & Time of Sampling : 23.05.2018 & 1:00PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/MAY/WTP/02	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 : 22.05.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 23.05.2019
Testing Condition : 25°C, 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540418000000186F	Date of Report : 30.05.2019

### 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	64.54	SOP/UML/WT/02 Based on CPCB guideline Vol-I : 2012
2		Respirable Particulate Matter PM10	µg/M <sup>3</sup>	≤100.00	75.28	IS:5182 (PT – 23) : 2006
3		Sulphur Dioxide	µg/M <sup>3</sup>	≤80.00	17.16	IS:5182 (PT – 2) : 1999 Reaffirmed 2001
4		Nitrogen Dioxide	µg/M <sup>3</sup>	≤80.00	16.60	IS:5182 (PT – 6) : 2006


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## TEST REPORT STACK MONITORING

### Sample Details

### Client Details

Date & Time of Sampling : 17.08.2019 & 04.20 PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/AUG/03	Client Address : Tatisilwai, Ranchi
Type of Sample : STACK	Client Code : UML/CPP/03
Duration of Sampling : 1.5 hrs	State : Jharkhand
Sample Drawn by : Mr SURAJ KUMAR	Date of Receipt of Sample : 17.08.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 19.08.2019
Testing Condition : 23.8°C, 53.4%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC8574	Date of Report : 20.08.2019

### TEST REPORT

Sl. No.	Description	Unit	Desirable limit	Result	Test Method
1	Location			ESP OUT-LET	
2	Area of Stack	(M <sup>2</sup> )		1.485	
3	Temperature of flue gas	(°C)		108.00	
4	Average Velocity	(m/s)		22.14	
6	Particulate matter	(mg/Nm <sup>3</sup> )	50.00	47.96	IS 11255, (part-1) 1985 reaffirmed 2003
7	Sulphur Dioxide	(mg/Nm <sup>3</sup> )	350.00	240.56	IS 11255, (part-2) 1985 reaffirmed 2003
8	Nitrogen Oxides	(mg/Nm <sup>3</sup> )	350.00	113.15	IS 11255, (part-7) 2005
10	Mercury at ESP outlet	MicrGm/m <sup>3</sup>	< 0.03	BDL	


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

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(Manish Kumar)

  
CHECKED BY  
(Tanmay Roy)

  
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## TEST REPORT STACK MONITORING

### Sample Details

### Client Details

Date & Time of Sampling : 23.05.2019 & 2:30PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : CPP/ENV/MAY/140/01	Client Address : Tatisilwai, Ranchi
Type of Sample : STACK	Client Code : UML/CPP/03
Duration of Sampling : 24 hrs	State : Jharkhand
Sample Drawn by : Mr SUBHAS CHATTERJEE	Date of Receipt of Sample : 23.05.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 24.05.2019
Testing Condition : 25°C, 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540418000000185F	Date of Report : 30.05.2019

### TEST REPORT

Sl. No.	Description	Unit	Desirable limit	Result	Test Method
1	Location			ESP OUT-LET	
2	Area of Stack	(M <sup>2</sup> )		1.485	
3	Temperature of flue gas	(°C)		108.00	
4	Average Velocity	(m/s)		19.82	
6	Particulate matter	(mg/Nm <sup>3</sup> )	50.00	46.8	IS 11255, (part-1) 1985 reaffirmed 2003
7	Sulphur Dioxide	(mg/Nm <sup>3</sup> )	350.00	248.72	IS 11255, (part-2) 1985 reaffirmed 2003
8	Nitrogen Oxides	(mg/Nm <sup>3</sup> )	350.00	115.36	IS 11255, (part-7) 2005

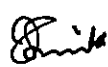
**Note: - General Emission standards as per Gazette of India, published by ministry of Environment & forests, 19<sup>th</sup> May, 1993 are for PM- 150 mg/Nm<sup>3</sup>.**

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## TEST REPORT

### ETP WATER

#### Sample Details

#### Client Details

Date & Time of Sampling : 12.05.2019 & 11AM	Client Name : Usha Martin Limited(PENGG Div)
Sample ID : MAY/EW/ CPP/11	Client Address : Tatisilwai, Ranchi
Type of Sample : TREATED ETP WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suroj Kumar	Date of Receipt of Sample : 12.05.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 20.05.2019
Testing Condition : 25°C , 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000184F	Date of Report : 25.05.2019


## REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		5.50 – 9.00	8.2	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr		1350	APHA 22 <sup>nd</sup> Edition-2540 C
3	Total Suspended solids	Mg/ltr	100.00	4.99	APHA 22 <sup>nd</sup> Edition-2540 D
4	Dissolved oxygen	Mg/ltr		11.6	IS:3025, (part-38) 2014
5	Oil & Grease	Mg/ltr	10.00	3.66	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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( Tanmay Roy )AUTHORISED BY  
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**TEST REPORT**  
**ETP WATER**

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

Date & Time of Sampling :: 12.05.2019 & 11AM	Client Name : Usha Martin Limited(WWR Div)
Sample ID : MAY/EW/ CPP/11	Client Address : Tatisilwai, Ranchi
Type of Sample : TREATED ETP WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suroj Kumar	Date of Receipt of Sample : 12.05.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 20.05.2019
Testing Condition : 25°C , 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000184F	Date of Report : 25.05.2019

**TEST REPORT**

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Lead	Mg/ltr	0.10	<0.10
2	Zinc	Mg/ltr	5.00	3.02
3	Phosphate	Mg/ltr	5.00	1.17
4	Chloride	Mg/ltr	-	363.88
5	BOD, 3 days at 27 °C	Mg/ltr	30.00	10.00
6	COD	Mg/ltr	250.00	30.00
7	Iron	Mg/ltr	3.00	4.24
8	Manganese	Mg/ltr	2.00	0.99

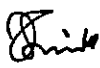
\*\* General standards for discharge of environmental pollutants vide Ministry of Env. And Forests notification dated 19<sup>th</sup> May, 1993 and amendment dated 31<sup>st</sup> December, 1993.

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CHECKED BY  
( Tanmay Roy )

  
AUTHORISED BY  
(Tanmoy Sinha)

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## TEST REPORT DRINKING WATER

### Sample Details

### Client Details

Date & Time of Sampling : 12.05.2019 & 11AM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : MAY/DW/ CPP/09	Client Address : Tatisilwai, Ranchi
Type of Sample : DRINKING WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 12.05.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 20.05.2019
Testing Condition : 25°C , 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000182F	Date of Report : 25.05.2019

### REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		6.50 to 8.50	7.05	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr	500.00	20.00	APHA 22 <sup>nd</sup> Edition-2540 C
3	Turbidity	NTU	1.00	0.60	APHA 22 <sup>nd</sup> Edition-2130 B
4	Alkalinity	Mg/ltr	200.00	36.00	IS:3025, (part-23) 2014
5	Acidity	Mg/ltr		10.20	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	12.00	IS:3025, (part-40) 2014
8	Magnesium (as CaCO <sub>3</sub> )	Mg/ltr	30.00	08.00	APHA 22 <sup>nd</sup> Edition -3500mg B
9	Chloride	Mg/ltr	250.00	18.00	IS:3025, (part-32) 2014
10	Sulphate	Mg/ltr	200.00	0.01	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	0.04	IS:3025, (part-53) 2014
13	Nitrate	Mg/ltr	45.00	4.69	IS:3025, (part-39) 2014
14	Nitrite	Mg/ltr		0.01	APHA 22 <sup>nd</sup> Edition-4500No <sub>2</sub> B
15	Silica	Mg/ltr		0.15	IS:3025, (part-35) 2014
16	Temperature	°C		22.5	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

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

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

Date & Time of Sampling : : 12.05.2019 & 11AM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : MAY/DW/ CPP/09	Client Address : Tatisilwai, Ranchi
Type of Sample : DRINKING WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 12.05.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 20.05.2019
Testing Condition : 25°C , 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000182F	Date of Report : 25.05.2019

**TEST REPORT**

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Colour	Hazen	5.00	<5.00
2	Odour		AGREEABLE	AGREEABLE
3	Taste		AGREEABLE	AGREEABLE
4	Fluoride	Mg/ltr	1.00	0.021
5	Manganese	Mg/ltr	0.10	0.043
6	Mercury	Mg/ltr	0.001	<0.0005
7	Lead	Mg/ltr	0.01	<0.005
8	Zinc	Mg/ltr	5.00	<0.400

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(Tanmay Roy)AUTHORISED BY  
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## TEST REPORT GROUND WATER

### Sample Details

### Client Details

Date & Time of Sampling :: 12.05.2019 & 11AM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : MAY/DW/ CPP/10	Client Address : Tatisilwai, Ranchi
Type of Sample : GROUND WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 12.05.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 20.05.2019
Testing Condition : 25°C, 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000183F	Date of Report : 25.05.2019

### REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		6.50 to 8.50	7.80	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr	500.00	980.0	APHA 22 <sup>nd</sup> Edition-2540 C
3	Turbidity	NTU	1.00	17	APHA 22 <sup>nd</sup> Edition-2130 B
4	Alkalinity	Mg/ltr	200.00	260.00	IS:3025, (part-23) 2014
5	Acidity	Mg/ltr		17.00	IS:3025, (part-22) 2014
6	Total hardness (as CaCO <sub>3</sub> )	Mg/ltr	300.00	288.00	IS:3025, (part-21) 2014
7	Calcium (as CaCO <sub>3</sub> )	Mg/ltr	75.00	220.00	IS:3025, (part-40) 2014
8	Magnesium (as CaCO <sub>3</sub> )	Mg/ltr	30.00	68.00	APHA 22 <sup>nd</sup> Edition -3500mg B
9	Chloride	Mg/ltr	250.00	220.00	IS:3025, (part-32) 2014
10	Sulphate	Mg/ltr	200.00	68.4	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	0.90	IS:3025, (part-53) 2014
13	Nitrate	Mg/ltr	45.00	250.00	IS:3025, (part-39) 2014
14	Nitrite	Mg/ltr		1.05	APHA 22 <sup>nd</sup> Edition-4500No <sub>2</sub> B
15	Silica	Mg/ltr		8.36	IS:3025, (part-35) 2014
16	Temperature	°C		25.7	IS:3025, (part-9) 2006

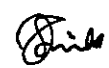
**\*\* IS: 10500(2012): Drinking Water Specification**

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CHECKED BY  
( Tanmay Roy )

  
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**TEST REPORT**  
**GROUND WATER**

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

Date & Time of Sampling :: 12.05.2019 & 11AM	Client Name :Usha Martin Limited(CPP Div)
Sample ID : MAY/DW/ CPP/10	Client Address : Tatisilwai, Ranchi
Type of Sample : DRINKING WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1hrs	State : Jharkhand
Sample Drawn by : Mr Suroj Kumar	Date of Receipt of Sample : 12.05.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 20.05.2019
Testing Condition : 25°C , 62%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000183F	Date of Report : 25.05.2019

**TEST REPORT**


Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Colour	Hazen	5.00	<5.00
2	Odour		AGREEABLE	AGREEABLE
3	Taste		AGREEABLE	AGREEABLE
4	Fluoride	Mg/ltr	1.00	0.044
5	Manganese	Mg/ltr	0.10	0.052
6	Mercury	Mg/ltr	0.001	<0.0005
7	Lead	Mg/ltr	0.01	<0.005
8	Zinc	Mg/ltr	5.00	<0.400

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## TEST REPORT OF TREATED ETP WATER

### Sample Details

### Client Details

Date & Time of Sampling	: 15.04.2019 & 11:15 AM	Client Name	: Usha martin limited (CPP)
Sample ID	: APR/EW/ CPP/12	Client Address	: Tatisilwai, Ranchi , 835103
Date of Receipt	: 15.04.2019	State	: Jharkhand
Sample Drawn by	: Lab Representative	Type of Sample	: Treated ETP Water
Date of Report	: 22.04.2019	Sampling method	: Grab sampling
Unique Lab report No	: TC540418000000171F	Sample Description	: ETP Water at UML CPP Division


## TEST REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		5.50 – 9.00	7.70	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr		796.00	APHA 22 <sup>nd</sup> Edition-2540 C
3	Total Suspended solids	Mg/ltr	100.00	11.95	APHA 22 <sup>nd</sup> Edition-2540 D
4	Dissolved oxygen	Mg/ltr		7.80	IS:3025, (part-38) 2014
5	Oil & Grease	Mg/ltr	10.00	6.00	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 OF TREATED ETP WATER

### Sample Details

### Client Details

Date of Sampling	: 15.04.2019 & 11:15 AM	Client Name	: Usha martin limited (CPP)
Sample ID	: APR/EW/CPP/12	Client Address	: Tatisilwai, Ranchi , 835103
Date of Receipt	: 15.04.2019	State	: Jharkhand
Sample Drawn by	: Lab Representative	Type of Sample	: Treated ETP Water
Date of Report	: 22.04.2019	Sample Description	: ETP Water at UML CPP Division


## TEST REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Lead	Mg/ltr	0.10	<0.10
2	Zinc	Mg/ltr	5.00	1.01
3	Phosphate	Mg/ltr	5.00	0.49
4	Chloride	Mg/ltr	-	288.59
5	BOD, 3 days at 27 °C	Mg/ltr	30.00	8.00
6	COD	Mg/ltr	250.00	22.00
7	Iron	Mg/ltr	3.00	0.42
8	Manganese	Mg/ltr	2.00	0.10

\*\* 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 OF GROUND WATER

### Sample Details

### Client Details

Date & Time of Sampling : 15.04.2019 & 11:15 AM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : APR/RW/CPP/10	Client Address : Tatisilwai , Ranchi
Date of Receipt : 15.04.2019	State : Jharkhand
Sample Drawn by : Lab Representative	Type of Sample : Ground Water
Date of Report : 22.04.2019	Sampling Method : Grab Sampling
Unique Lab Report No : TC540418000000169F	Sample Description : Ground water-CPP Division

### TEST REPORT

Sl.No.	Characteristics	Unit	Results	Test Method
1	pH		7.90	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr	470.00	APHA 22 <sup>nd</sup> Edition-2540 C
3	Turbidity	NTU	14.90	APHA 22 <sup>nd</sup> Edition-2130 B
4	Alkalinity	Mg/ltr	268.00	IS:3025, (part-23) 2014
5	Acidity	Mg/ltr	25.50	IS:3025, (part-22) 2014
6	Total hardness (as CaCO <sub>3</sub> )	Mg/ltr	284.00	IS:3025, (part-21) 2014
7	Calcium (as CaCO <sub>3</sub> )	Mg/ltr	204.00	IS:3025, (part-40) 2014
8	Magnesium (as CaCO <sub>3</sub> )	Mg/ltr	80.00	APHA 22 <sup>nd</sup> Edition -3500mg B
9	Chloride	Mg/ltr	163.95	IS:3025, (part-32) 2014
10	Sulphate	Mg/ltr	73.67	APHA 22 <sup>nd</sup> Edition-4500 So <sub>4</sub> 2
11	Residual free chlorine	Mg/ltr	<0.10	IS:3025, (part-26) 2014
12	Iron	Mg/ltr	2.06	IS:3025, (part-53) 2014
13	Nitrate	Mg/ltr	96.69	IS:3025, (part-39) 2014
14	Nitrite	Mg/ltr	2.13	APHA 22 <sup>nd</sup> Edition-4500No <sub>2</sub> B
15	Silica	Mg/ltr	7.19	IS:3025, (part-35) 2014
16	Temperature	°C	24.1	IS:3025, (part-9) 2006

#### Declaration:-

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- Result in the report refers to only the sample submitted by the client.
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 JHARKHAND. PIN-835108

## TEST REPORT OF GROUND WATER

### Sample Details

### Client Details

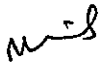
Date & Time of Sampling	: 15.04.2019 & 11:15 AM	Client Name	: Usha Martin Limited (CPP Div)
Sample ID	: APR/RW/CPP/10	Client Address	: Tatisilwai , Ranchi
Date of Receipt	: 15.04.2019	State	: Jharkhand
Sample Drawn by	: Lab Representative	Type of Sample	: Ground Water
Date of Report	: 22.04.2019	Sample Description	: Ground water- CPP Division

### TEST REPORT

Sl.No.	Characteristics	Unit	Results
1	Colour	Hazen	>10.00
2	Odour		AGREEABLE
3	Taste		AGREEABLE
4	Fluoride	Mg/ltr	0.072
5	Manganese	Mg/ltr	0.052
6	Mercury	Mg/ltr	<0.0005
7	Lead	Mg/ltr	<0.005
8	Zinc	Mg/ltr	1.52

### Declaration:-

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## TEST REPORT OF DRINKING WATER

### Sample Details

### Client Details

Date & Time of Sampling : 15.04.2019 & 11:15 AM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : APR/DW/ CPP/11	Client Address : Tatisilwai , Ranchi
Date of Receipt : 15.04.2019	State : Jharkhand
Sample Drawn by : Lab Representative	Type of Sample : Drinking Water
Date of Report : 22.04.2019	Sampling Method : Grab Sampling
Unique Lab Report No : TC540418000000170F	Sample Description : Drinking water-CPP Division

### TEST REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		6.50 to 8.50	6.50	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr	500.00	20.00	APHA 22 <sup>nd</sup> Edition-2540 C
3	Turbidity	NTU	1.00	0.30	APHA 22 <sup>nd</sup> Edition-2130 B
4	Alkalinity	Mg/ltr	200.00	16.00	IS:3025, (part-23) 2014
5	Acidity	Mg/ltr		5.10	IS:3025, (part-22) 2014
6	Total hardness (as CaCO <sub>3</sub> )	Mg/ltr	300.00	8.00	IS:3025, (part-21) 2014
7	Calcium (as CaCO <sub>3</sub> )	Mg/ltr	75.00	6.00	IS:3025, (part-40) 2014
8	Magnesium (as CaCO <sub>3</sub> )	Mg/ltr	30.00	2.00	APHA 22 <sup>nd</sup> Edition -3500mg B
9	Chloride	Mg/ltr	250.00	12.00	IS:3025, (part-32) 2014
10	Sulphate	Mg/ltr	200.00	1.49	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	8.34	IS:3025, (part-39) 2014
14	Nitrite	Mg/ltr		0.39	APHA 22 <sup>nd</sup> Edition-4500No <sub>2</sub> B
15	Silica	Mg/ltr		0.62	IS:3025, (part-35) 2014
16	Temperature	°C		24.4	IS:3025, (part-9) 2006

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

#### Declaration:-

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**TEST REPORT OF DRINKING WATER****Sample Details****Client Details**



Date & Time of Sampling	: 15.04.2019 & 11:15 AM	Client Name	: Usha Martin Limited (CPP Div)
Sample ID	: APR/DW/ CPP/11	Client Address	: Tatisilwai , Ranchi
Date of Receipt	: 15.04.2019	State	: Jharkhand
Sample Drawn by	: Lab Representative	Type of Sample	: Drinking Water
Date of Report	: 22.04.2019	Sample Description	: Drinking water- CPP Division

**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	0.022
5	Manganese	Mg/ltr	0.10	0.031
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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OFFICE NO: 06513051 683, 06513051 689 Fax: 06513051 409/410

## TEST REPORT ETP WATER

### Sample Details

Date & Time of Sampling : 05.07.2019  
Sample ID : JUL/EW/ CPP/11  
Type of Sample : TREATED ETP WATER  
Duration of Sampling : 1 hrs  
Sample Drawn by : Mr Suroj Kumar  
Sample Plan Reference : UML/DOC/110  
Testing Condition : 24°C, 63%RS  
UNIQUE LAB REPORT NO : TC54041900000226F

### Client Details

Client Name : Usha Martin Limited(CPP Div)  
Client Address : Tatisilwai, Ranchi  
Client Code : UML/ CPP/03  
State : Jharkhand  
Date of Receipt of Sample : 05.07.2019  
Date of testing : 07.07.2019  
Test Performed : At Permanent Lab  
Date of Report : 25.07.2019

### REPORT

S.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		5.50 – 9.00	7.86	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr		652	APHA 22 <sup>nd</sup> Edition-2540 C
3	Total Suspended solids	Mg/ltr	100.00	32.0	APHA 22 <sup>nd</sup> Edition-2540 D
4	Dissolved oxygen	Mg/ltr		5.60	IS:3025, (part-38) 2014
5	Oil & Grease	Mg/ltr	10.00	9.33	IS:3025, (part-39) 2014

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

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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

### ETP WATER

Sample Details		Client Details	
Date & Time of Sampling	: 05.07.2019	Client Name	: Usha Martin Limited(CPP Div)
Sample ID	: JUL/EW/ CPP/11	Client Address	: Tatisilwai, Ranchi
Type of Sample	: TREATED ETP WATER	Client Code	: UML/ CPP/03
Duration of Sampling	: 1 hrs	State	: Jharkhand
Sample Drawn by	: Mr Suroj Kumar	Date of Receipt of Sample	: 05.07.2019
Sample Plan Reference	: UML/DOC/110	Date of testing	: 07.07.2019
Tasting Condition	: 24°C, 63KRS	Test Performed	: At Permanent Lab
UNIQUE LAB REPORT NO	: TC540419000000226F	Date of Report	: 25.07.2019


## TEST REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Lead	Mg/ltr	0.10	<0.10
2	Zinc	Mg/ltr	5.00	1.99
3	Phosphate	Mg/ltr	5.00	0.54
4	Chloride	Mg/ltr	-	298.0
5	BOD, 3 days at 27 °C	Mg/ltr	30.00	10.00
6	COD	Mg/ltr	250.00	30.00
7	Iron	Mg/ltr	3.00	2.58
8	Manganese	Mg/ltr	2.00	0.50

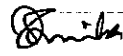
\*\* General standards for discharge of environmental pollutants vide Ministry of Env. And Forests notification dated 19<sup>th</sup> May, 1993 and amendment dated 31<sup>st</sup> December, 1993.

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TESTED BY  
(Manish Kumar)

  
CHECKED BY  
(Tanmay Roy)

  
AUTHORISED BY  
(Tanmoy Sinha)

CPP (2 X 10M W)  
USHAMARTIN LTD.  
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## TEST REPORT GROUND WATER

### Sample Details

### Client Details

Date & Time of Sampling : 05.07.2019 & 4:40PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : JUL/DW/ CPP/10	Client Address : Tatisilwai, Ranchi
Type of Sample : GROUND WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 05.07.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 07.07.2019
Testing Condition : 24°C, 63%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000225F	Date of Report : 25.07.2019

### REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		6.50 to 8.50	7.44	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr	500.00	430.0	APHA 22 <sup>nd</sup> Edition-2540 C
3	Turbidity	NTU	1.00	21.98	APHA 22 <sup>nd</sup> Edition-2130 B
4	Alkalinity	Mg/ltr	200.00	18.00	IS:3025, (part-23) 2014
5	Acidity	Mg/ltr		3.60	IS:3025, (part-22) 2014
6	Total hardness (as CaCO <sub>3</sub> )	Mg/ltr	300.00	188.0	IS:3025, (part-21) 2014
7	Calcium (as CaCO <sub>3</sub> )	Mg/ltr	75.00	136.0	IS:3025, (part-40) 2014
8	Magnesium (as CaCO <sub>3</sub> )	Mg/ltr	30.00	52.00	APHA 22 <sup>nd</sup> Edition -3500mg B
9	Chloride	mg/ltr	250.00	11.98	IS:3025, (part-32) 2014
10	Sulphate	Mg/ltr	200.00	215.58	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	0.99	IS:3025, (part-53) 2014
13	Nitrate	Mg/ltr	45.00	70.78	IS:3025, (part-39) 2014
14	Nitrite	Mg/ltr		2.51	APHA 22 <sup>nd</sup> Edition 4500NO <sub>2</sub> B
15	Silica	Mg/ltr		28.87	IS:3025, (part-35) 2014
16	Temperature	°C		25.0	IS:3025, (part-9) 2006

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

### Declaration:-

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*Manish Kumar*

TESTED BY  
(Manish Kumar)

*Tanmay Roy*

CHECKED BY  
(Tanmay Roy)

*Usha Martin*

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

## TEST REPORT

### Sample Details

### Client Details

Date & Time of Sampling : 05.07.2019 & 4:40PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : JUL/DW/ CPP/10	Client Address : Tatisilwai, Ranchi
Type of Sample : GROUND WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 05.07.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 07.07.2019
Testing Condition : 24°C , 63%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000225F	Date of Report : 25.07.2019

## TEST REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Colour	Hazen	5.00	<5.00
2	Odour		AGREEABLE	AGREEABLE
3	Taste		AGREEABLE	AGREEABLE
4	Fluoride	Mg/ltr	1.00	0.062
5	Manganese	Mg/ltr	0.10	0.088
6	Mercury	Mg/ltr	0.001	<0.0005
7	Lead	Mg/ltr	0.01	<0.005
8	Zinc	Mg/ltr	5.00	<0.400

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Manish Kumar

CHECKED BY  
(Tanmay Roy)

AUTHORISED BY  
(Tanmoy Sinha)

CPP (2 X 10MW)  
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JHARKHAND. PIN-835103



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## TEST REPORT DRINKING WATER

### Sample Details

### Client Details

Date & Time of Sampling : 05.07.2019 & 4:40PM	Client Name : Usha Martin Limited (CPP Div)
Sample ID : JUL/DW/ CPP/09	Client Address : Tatisilwai, Ranchi
Type of Sample : DRINKING WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 05.07.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 07.07.2019
Testing Condition : 24°C, 63%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC54041900000224F	Date of Report : 25.07.2019

### REPORT

No.	Characteristics	Unit	Requirement (Desirable limit)	Results	Test Method
1	pH		6.50 to 8.50	6.92	APHA 22 <sup>nd</sup> Edition-4500 H <sup>+</sup>
2	Total Dissolved Solids	Mg/ltr	500.00	22.00	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	176.00	IS:3025, (part-23) 2014
5	Acidity	Mg/ltr		16.20	IS:3025, (part-22) 2014
6	Total hardness (as CaCO <sub>3</sub> )	Mg/ltr	300.00	260.0	IS:3025, (part-21) 2014
7	Calcium (as CaCO <sub>3</sub> )	Mg/ltr	75.00	242.0	IS:3025, (part-40) 2014
8	Magnesium (as CaCO <sub>3</sub> )	Mg/ltr	30.00	18.0	APHA 22 <sup>nd</sup> Edition -3500mg B
9	Chloride	mg/ltr	250.00	142.96	IS:3025, (part-32) 2014
10	Sulphate	Mg/ltr	200.00	0.85	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	0.18	IS:3025, (part-53) 2014
13	Nitrate	Mg/ltr	45.00	6.67	IS:3025, (part-39) 2014
14	Nitrite	Mg/ltr		0.37	APHA 22 <sup>nd</sup> Edition 4500No <sub>2</sub> B
15	Silica	Mg/ltr		2.37	IS:3025, (part-35) 2014
16	Temperature	°C		25.0	IS:3025, (part-9) 2006

IS: 10500(2012): Drinking Water Specification

### Declaration:-

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

TESTED BY  
Manish Kumar

CHECKED BY  
(Tanmay Roy)

AUTHORISED BY

(Tanmay Singh)  
CPP (2 X 10 MW)  
USHAMARTIN LTD.  
TATISILWAI, RANCHI  
PIN 835103

## TEST REPORT DRINKING WATER

### Sample Details

### Client Details

Date & Time of Sampling : 12.06.2019 & 11AM	Client Name : Usha Martin Limited(CPP Div)
Date & Time of Sampling : 05.07.2019 & 4:40PM	Client Name : Usha Martin Limited(CPP Div)
Sample ID : JUL/DW/ CPP/09	Client Address : Tatisilwai, Ranchi
Type of Sample : DRINKING WATER	Client Code : UML/ CPP/03
Duration of Sampling : 1 hrs	State : Jharkhand
Sample Drawn by : Mr Suraj Kumar	Date of Receipt of Sample : 05.07.2019
Sample Plan Reference : UML/DOC/110	Date of testing : 07.07.2019
Testing Condition : 24°C, 63%RS	Test Performed : At Permanent Lab
UNIQUE LAB REPORT NO : TC540419000000224F	Date of Report : 25.07.2019

### TOT REPORT

Sl.No.	Characteristics	Unit	Requirement (Desirable limit)	Results
1	Colour	Hazen	5.00	<5.00
2	Odour			
3	Taste			
4	Fluoride	Mg/ltr	AGREEABLE	AGREEABLE
5	Manganese			
6	Mercury	Mg/ltr	0.10	0.017
7	Lead	Mg/ltr	0.001	0.089
8	Zinc	Mg/ltr	0.01	<0.0005
			5.00	<0.005
				<0.400

\* 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



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MERLIN INFINITE  
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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



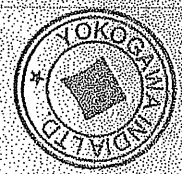
# MINUTES OF MEETING

**vigilantplant:**

CUSTOMER	USHA MARTIN LTD.																				
MEETING LOCATION	CPP, TATISILWAI, RANCHI, JHARKHAND																				
DATE	March 28, 2015																				
PURPOSE OF THE MEETING	Addition of new tags for remote transmission & monitoring on CPCB site																				
W.O.																					
CUSTOMER		PARTICIPANTS																			
YOKOGAWA		YOKOGAWA																			
Mr. M.S. Mandal		Mr. Dhirender Dagar																			
Mr. V. Kumar		(Yokogawa India Ltd)																			
		MOB.-9996952300																			
SL.NO	DESCRIPTION	ACTION BY	REMARKS																		
1	M/s YIL Engineer visited the site on 28-03-15 to add and configure new tags for remote transmission & monitoring on CPCB site.	M/S YIL																			
2	The following new tags are added through Gate OPC and the same tags are added at CPCB site- <table border="1" style="width: 100%; margin-top: 5px;"> <thead> <tr> <th>TAG</th> <th>RANGE</th> <th>UNIT</th> </tr> </thead> <tbody> <tr> <td>1.ETP_PH</td> <td>0-14</td> <td>pH</td> </tr> <tr> <td>2.ETP_TEMP</td> <td>0-150</td> <td>degC</td> </tr> <tr> <td>3.ETP_TSS</td> <td>0-1000</td> <td>mg/ltr</td> </tr> <tr> <td>4.B1T1312</td> <td>0-300</td> <td>degC</td> </tr> <tr> <td>5.B2T1312</td> <td>0-300</td> <td>degC</td> </tr> </tbody> </table>	TAG	RANGE	UNIT	1.ETP_PH	0-14	pH	2.ETP_TEMP	0-150	degC	3.ETP_TSS	0-1000	mg/ltr	4.B1T1312	0-300	degC	5.B2T1312	0-300	degC	M/S YIL	
TAG	RANGE	UNIT																			
1.ETP_PH	0-14	pH																			
2.ETP_TEMP	0-150	degC																			
3.ETP_TSS	0-1000	mg/ltr																			
4.B1T1312	0-300	degC																			
5.B2T1312	0-300	degC																			
3	The newly added tags showing proper value after configuration and under observation. Usha Martin will update if any further modification required for tags configured.	M/S YIL																			
4	YIL request to Usha Martin to provide detail for Limit value as per norms set up by State pollution control so that we can display same at our site.	M/S YIL																			
5	M/s YIL Engineer is leaving site on 28/03/2015 after completing above activities.	M/S YIL																			
CUSTOMER		YOKOGAWA																			

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

*Dhirender Dagar*



*[Handwritten Signature]*

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

To whomsoever it concerns

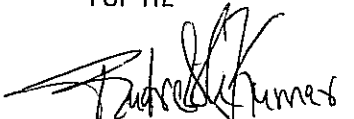
With reference to the above mentioned purchase order, we would like to inform that M/s Yokogawa India Ltd. has successfully completed supply ,supervision, erection and commissioning of emission data connectivity to JSPCB for their verification and evaluation. Pls refer to the Minutes Of Meeting signed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

The performance is found to be satisfactory.

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

Thanking you,

For YIL

  
Mr.B.Rudresh Kumar  
Assistant Manager

# ◆ MINUTES OF MEETING

vigilantplant®

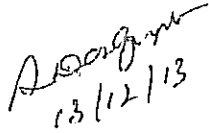

❖ CUSTOMER NAME	❖ M/s Ushamatin ltd		
❖ MEETING LOCATION	❖ Power-Plant- Ranchi		
❖ PURPOSE OF MEETING	❖ Connectivity to JPCB		
❖ MEETING DATE	13-12-2013	❖ SERVICE REQUEST NO	KOL/13/A/CA/31354
❖ P.O. No	20152	❖ P.O. DATE	06/09/2013
❖ 1 <sup>st</sup> VISIT START FROM	14-11-2013	❖ 1 <sup>st</sup> VISIT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

## Member presents on Meeting

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

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

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

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

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

"Abhyantran Bhawan", Kutchery Chowk, Ranchi-834001, Phone-91-2217141/Fax-91-2214830

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

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

From,

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

To,

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

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

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

Sir,

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

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

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

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

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

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

**Enclosures:** -(1) Technically Approved Rain Water Harvesting Plan.  
(2) Standard Plan and Design of Recharge Pits.

*D. Banerjee*  
24.11.11  
D. Banerjee  
(Deputy Director)  
Ground Water Directorate, Ranchi.

Yours sincerely,  
*[Signature]*  
24/11/2011  
Director,  
Ground Water Directorate,  
Jharkhand, Ranchi.

# **usha martin**

**Usha Martin Limited**  
(Wire Ropes & Speciality Products Division)

Works : Tatisilwai - 835 103, Ranchi, Jharkhand,  
Ph.: (00 91 651) 226 52 41/3051400/430, Fax : (00 91 651) 3051409/410

Ref : UML/EMS/GWD/RWH/12/02  
Date : 15/10/2012

To

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

Kind Attn. of : Mr. SLS Jageshwar

Sub : To submit Completion Report on Rain Water Harvesting Plan

Ref: i) Our Letter Ref. No. UML/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,

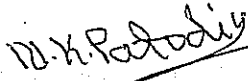
Further to our above letter (ref. No. UML/PP/EMS/GWD/RWH/12/01 dtd. 03/05/2012), we would like to place following facts before your good self for kind information :

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)

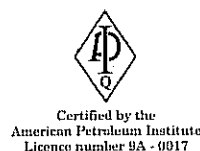
  
(NK Patodia)


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  
Licence number 9A - 0017

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



# CSR Report



## Corporate Social Responsibility of Power Plant (for MOEF), Period April to September' 2019

### Overview

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

- ☐ Natural Resource Management
- ☐ Health Hygiene & Sanitation
- ☐ Education
- ☐ Capacity Building
- ☐ Livelihood
- ☐ Renewable Energy
- ☐ Resource Mobilization
- ☐ Women Empowerment
- ☐ Infrastructure



### Natural Resource Management Activities:

- For promotion of organic farming we have promoted **NADEP compost (14) & Compost pit (124), Low cost vermi compost (04) for organic manure, Fish tonic (02)** 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.



# CSR Report



## Corporate Social Responsibility of Power Plant (for MOEF), Period April to September' 2019

- We (Usha Martin) have repaired eighty one (81) hand pump for better access to safe drinking water.
- SRI plantation has been the major Achievement in UML- CSR Area. Two Thousand Thirty Five farmers in 21 villages had done paddy cultivation, in 2016-17 and we added 43 New SRI farmers.



- We have Linked 43 Household cum farmers with Govt. Scheme for SRI and supported farmers through awareness, techniques and close monitoring of the whole process. We have also incorporated the Govt. Scheme in the villages. As this year the rainfall was timely and by seeing the paddy fields we expect around 1.5 to 2 times better production through SRI technique in compared to traditional way of cultivation.
- 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. 04 training were conducted to aware for soil test.

- Irrigation has been a serious problem for farmers and due to this reason; they were reluctant to do cultivation in summer season. Thus, Usha Martin has initiated the construction of 59 new Low lands

well in the periphery of factory, which we aim to cover additional 120 Acres of land for Rabi crop cultivation.

- Sixteen (16) Jal miner are being constructed in the TATI EAST, Tati West, Baram, chatra, masu, Jamuari and Chatra village for more than 320 households.
- Crop Insurance is required for rainy day thus, we encouraged farmers for crop insurance to have compensation if any adversity happen to crop. 215 Farmers have done insurance for their crops.



### Health



- During this six month period we have done 15 medical camps comprised of Eye test, General Health camp as well as Homeopathy treatment for the villagers. Such camp were held in Tati East, Haratu, Silwai, Chatra, Mahilong and others

villages. If required for further treatment, patients were sent to Shalini Hospital for better treatment

- **Thirty Eight (38) Adolescent girls 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.
- **Forty two (42) Home Visits** has been for awareness about Anti Natal Checkup, Post Natal Checkup, Immunization etc. with the ladies who were present in Health due list of Sahiya.
- We have **organized only eight (08) school health session in government schools**. The children are made aware about personal hygiene, hand washing techniques, prevention from different diseases etc.
- As under Swatch Bharat Abhiyaan Toilet construction is going on in all CSR villages
- We have conducted many sanitation awareness sessions in villages to make people aware about the ill effects of open defecation and also tried bring them out of old habits and also tried to develop self-respect.
- Water is the main source for every good health. Through CSR, Safe drinking water training were conducted in the villages. All Fourteen (14) training were conducted.
- Total Forty Seven (47) village Health committee meeting were attended and given suggested.



### Training and Capacity Building Activities:

- In the villages **Seventy Six (76) Gram Shabha** were attended and given proper suggestion for



**effective meeting and thereafter activities. farmers were made aware about the organic way of farming.** We have made farmers aware about NADEP compost, Compost Pit, Low Cost Vermi Compost, Fish Tonic, PANCHGAVYA, Inter Cropping, Mix Cropping, Relay Cropping etc.

- **Village level meetings of VHC, VEC, and SHG** was regularly organized in **29 villages. Regular Quality circle meeting** are being held in all villages on problems like Water Logging, Alcoholism, Sanitation, Unsafe drinking water, Income generation alternatives, Illiteracy, Open defecation etc. The QCs are also been audited by Experts of Usha Martin Ltd.
- Since our stakeholders depends upon agriculture for their livelihood and income generation. Thus our focus were to train themselves about modern/ scientific way of harvesting. We have coordinated with Birsa Agriculture University (BAU) and RamKrishan Mission for imparting new idea and technology so far agriculture area is concerned. Total Seventeen (17) training were conducted during this six months period
- Integrated training trough Ramkrishan Mission were done – 26 Nos. Birsa Agriculture University (BAU) training- 05 Nos.
- Mushroom Cultivating Training- 04 Nos.
- Soil Test training- 04 nos.
- Fishery training - 40 nos.
- SRI (Systematic Rice Intensification) training-09 Nos.



## Educational Activities:



Approx 250 children's are being benefitted by this activity and with this additional support are doing well in class.

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

- **Adult literacy campaigns** have been organized in 05 villages in which around 35 women have learned to read and write, identify letters etc.
- **Edutainment classes** by the education team are been organized in Government schools of Ara, Mahilong and Khatanga.
- **Sanitation Program in school** has been conducted in the Baram, Ara, Mahilong, Tati, Silwai schools for awareness of hygiene, general health issues and others problems.
- **Nineteen (19) village Education committee** meeting held for general discussion of the upliftment of school infrastructure and quality of education
- Computer Education are going on in two villages namely Angara and Baram.
- CSR team has been looking after the issue related to quality education and doing programs like speech, debate, slogan writing and other awareness program in the school.
- Medical camp has been held in the school for general awareness upon eye, sanitation, seasonal diseases and keeping healthy.





# CSR Report



## Corporate Social Responsibility of Power Plant (for MOEF), Period April to September' 2019

### 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 50SHGs / women and its going on ( completed with 09 Families)
- Kitchen Garden with 269 Household for nutritious vegetable / fruits.
- Fishery with 40 groups of farmers
- Social Forestry in 04 persons/ groups
- Artificial insemination of 58 Cattle belong to cow/ buffalo
- Deep Irrigation-04
- Goatry training with 30 Household
- Jal Miners with Solar Energy -16 Nos.
- Certificate to SRI farmers- 08 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.





# CSR Report



Corporate Social Responsibility of Power Plant (for MOEF), Period April to September' 2019

## 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 ----- 06 Nos.
- SHG meeting ----- 107 Nos.
- Training on SRI ----- 09 Nos.
- Village Health Committee meeting ----- 47 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

- Crops Insurance ----- 215 No/ Families
- Ujjawal Gas ----- 52 Families
- Old Age Pension ----- 46 Families
- Widow Pension ----- 24 Families
- Seeds of Pulses ----- 33 Households
- Exposure Visit of Farmers ----- 05 Nos.
- PM Aashirvad Yojana ----- 519 Families
- Soil Test Training ----- 04 Nos

**Photo Gallery:**

**Figure- 1: Systematic Rice Intensification (SR) in the field of Ekawa Oraon of Mahilong**



**Figure- 2: Hand pump Repair at Haratu**



**Figure- 3: Soil Test at Mahilong**





# CSR Report



Corporate Social Responsibility of Power Plant (for MOEF), Period April to September' 2019

Figure- 4: Medical Camp at Chatra Village



Figure- 5: Fish Jeera Distribution amongst Farmers



Figure-1: Paper Clipping

**सिटी**

**उषा मार्टिन में खरीफ फसल की पैदावार पर परिचर्चा**

## मक्का, मड़आ और बाजरा की खेती करें किसान : डॉ अशोक

**वरीय संवाददाता** ▶ रांची

खरीफ फसल में उपज की बढ़ोतरी के लिए किसानों को 30 जून तक रोपाई कर लेनी होगी, इसके साथ ही जल्दी है कि किसान मोटे अनाज के विकल्प को अपनायें तथा मीनसुन एवं पानी की उपलब्धता के अनुसार धान की रोपनी को तैयारी करें, उक्त बातें डॉ अशोक कुमार सिंह ने कही, वे शुनिवार को उषा मार्टिन एवं विरसा कृषि विश्वविद्यालय के सौजन्य से खरीफ फसल की पैदावार विषय पर आयोजित परिचर्चा में बोल रहे थे, परिचर्चा को आयोजन उषा मार्टिन के एससीओ सभागार में किया गया था, उन्होंने कहा कि उपज बढ़ाने के लिए मंड पर मक्का की खेती लेनी चाहिए, कर्त, प्रकृति के अनुसार अलग-अलग विषयों पर चर्चा, दोन-एक की जमीन के लिए रस जून तक बिचड़ा लगा लेना चाहिए, किसानों को सभी बिचड़ा एक साथ लगाने से बचना चाहिए, डॉ अशोक ने कहा कि किसानों को जमीन की प्रकृति एवं पानी की समस्या से निजल पाने के लिए मोटे अनाज की खेती को बढ़ावा देना चाहिए, मोटे अनाज में मक्का, मड़आ, बाजरा आदि की खेती उपयोगी होगी, जिससे पानी की खपत कम होती है.

उषा मार्टिन सभागार में खरीफ फसल पर आयोजित कार्यक्रम में चर्चा करते हुए.

**मक्का बहुउपयोगी फसल है, नकदी फसल के रूप में खेती करें**

डॉ वंद शेखर सिंह ने कहा कि मक्का बहुउपयोगी फसल है, नकदी फसल के रूप में किसान को इसकी खेती करनी चाहिए, मक्का को सीडकोम, बेबीकॉम, घोंघोने तथा मवेशी के लिए चारा के रूप में उपयोग किया जा सकता है, यह एक मात्र ऐसा फसल है जिसकी कर्ष खेती एवं पैदावार की जा सकती है उषा मार्टिन के सीएसआर हेड डॉ मयंक मुरारी ने कहा कि जमीनी में खरीफ के बहुउपयोगी फसल के उत्पादन के लिए लगातार जल जागरूकता अभियान चलाया जा रहा है, किसानों को कम पानी और टाई जमीन का उपयोग मोटे फसल के उत्पादन में करना चाहिए, धान की खेती को वैज्ञानिक तरीके से एवं समय पर करने से ज्यादा उपज प्राप्त होगा, इसके लिए उभी से तैयारी जरूरी है, सवींद्र कुमार ने कहा अभी पृष्ठ ज्यादा है, ऐसे में मिट्टी को एक बार पलट दे ताकि बारिश का पानी अंदर तक जाये और नमी बचकर रहे, परिचर्चा के बाद सवाल जवाब का सत्र रखा गया, जिसमें किसानों ने अपनी समस्याओं को वैज्ञानिकों के समक्ष रखा, इस अवसर पर हरातु, महिलीग, आरा, टट्टी, सिलवई, उलातु आदि गांवों के किसान उपस्थित थे.

**महोत्सव उत्पादन पर परिचर्चा 14 मई को**: उषा मार्टिन सभागार में 14 मई को मक्का का वैज्ञानिक तरीके से उत्पादन विषय पर परिचर्चा आयोजित की गयी है, इसमें विरसा कृषि विश्वविद्यालय के वैज्ञानिक तथा मन्स्य विभाग के प्रोफेसर डॉ अखिलेश कुमार सिंह तथा डॉ भारतेन्दु विमल ग्रामीणी से चर्चा करेंगे तथा उनकी समस्याओं का निदान करेंगे.

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Figure-2: Paper Clipping

## टीबी उन्मूलन कार्यक्रम में सहयोग करेगा उषा मार्टिन, हुआ समझौता

**संवाददाता** ▶ रांची

उषा मार्टिन सीएसआर के तहत टीबी उन्मूलन के लिए लोगों को जागरूक करेगा, साथ ही लोगों की सहभागिता की दिशा में जिला यक्षमा विभाग को सहयोग करेगा, इस संबंध में जिला स्वास्थ्य विभाग (टीबी) और उषा मार्टिन के बीच सहमति पर समझौता किया गया, प्लॉट हेड एसबीएन वर्मा ने सहमति पर खुशी जतायी है, जिला क्षय रोग अधिकारी डॉ विनोद कुमार ने कहा कि उषा मार्टिन ने स्वास्थ्य के क्षेत्र में लगातार सहयोग दिया है, सहमति पत्र पर उषा मार्टिन के एचआर हेड विवेक कृष्ण एवं जिला क्षय रोग अधिकारी डॉ विनोद कुमार ने हस्ताक्षर किये हैं, उषा मार्टिन के सीएसआर प्रमुख

सहमति पर समझौता करते जिला स्वास्थ्य विभाग व उषा मार्टिन के अधिकारी.

डॉ मयंक मुरारी एवं डॉ विनोद कुमार ने एक-दूसरे को सहमति पत्र को दिया, कार्यक्रम में उषा मार्टिन को सहयोग रीच संस्था करेगी, मौके पर रीच के दिवाकर भार्मा, अमित कुमार एवं सीएसआर के भुवनेश्वर महतो आदि उपस्थित थे.

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**प्रभात खबर** <https://epaper.prabhatkhabar.com/c/41871375>

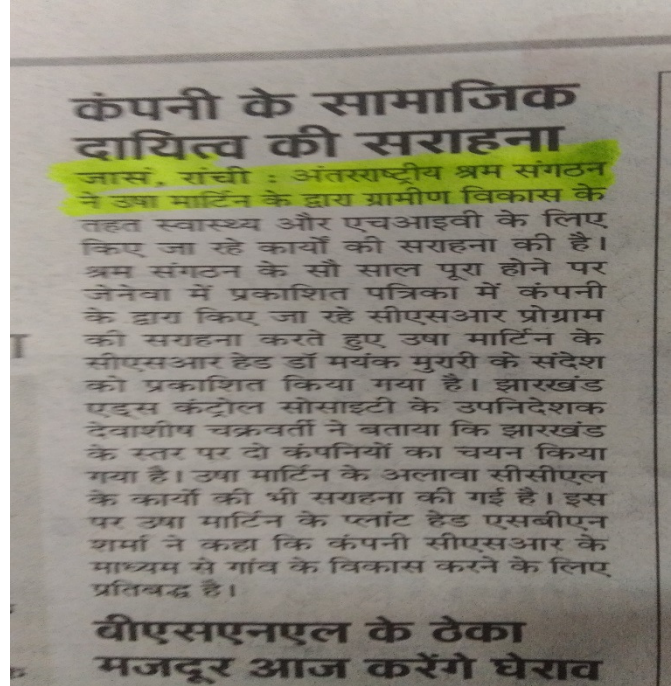
Figure-3: Paper Clipping

### उषा मार्टिन ने बांटा मछली का जीरा मछली पालन कमाई का बेहतर विकल्प

संवाददाता ▶ रांची

मछली पालन रोजगार का एक अहम जरिया है, इसके माध्यम से किसानों को पॉप्टिक आहार तो मिलता ही है, दूसरी ओर स्वरोजगार का भी एक विकल्प मिलता है, यह बात उषा मार्टिन के यूनियन प्रतिनिधि आर्के मिश्रा ने कही. झारखंड सरकार के मत्स्य विभाग के सहयोग से टाटासिलवे के इंद-गिर्द के 20 किसानों को मछली का जीरा और चारा बांटा गया. श्री मिश्रा ने किसानों को सलाह दी कि उषा मार्टिन के द्वारा सीएसआर के तहत किये जा रहे कार्यों का लाभ लेना चाहिए, मत्स्य विभाग के अधिकारी सुदेश कुमार ने कहा कि झारखंड की मिट्टी अम्लीय है, मछली उत्पादन को लाभदायी बनाता है, तो किसानों को तालाब और खेत में चूना डालना चाहिए. बेहतर उत्पादन के लिए मकैगी का खाद तालाब में डाल देना चाहिए, तालाब के पानी को

हल्का हरा दिखना चाहिए, इस अवसर पर पावर प्लांट के हेड तम्मय सिन्हा ने कहा कि सामाजिक दायित्व के तहत उषा मार्टिन लगातार प्रयास कर रही है, तकि पर्यावरण के साथ लोगों की स्थिति में सुधार ले. एचआर हेड विकेक कुष्ण ने कहा कि मत्स्य पालन को रोजगार से जोड़ना सम्य की जरूरत है. उषा मार्टिन द्वारा हरतु से विनोद मुंडा, अजय मुंडा व बदल मुंडा, टाटी पूर्वी से प्रवीण महतो, महिलाओं से राजेंद्र महतो, विजय महतो, तनु एक्का, मनोज मुंडा, प्रदीप मुंडा, अशोक कुंजर, सुनील कुंजर व नरेश महतो, मामू से रामो देवी, सिलव्डी से विनोद महतो और अन्नगड़ा के लालदेव महतो को कुल 30 पैकेट मछली का जीरा मुहैया कराया गया. मछली का चारा भी गंधवासियों के बीच बांटा गया. इस अवसर पर उषा मार्टिन के सचिंद्र कुमार, पीके मिश्रा, तान धर, भुवनेश्वर महतो, रेशन लिंडा सहित अन्य मौजूद थे.



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

Figure-04: Paper Clipping

### ग्रामीणों में बागवानी के लिए पौधे वितरित किये



गांव के लाभार्थियों को फपीता का पौधा बांटा गया.

● पोषण संतुलन के लिए उषा मार्टिन की पहल

संवाददाता ▶ रांची

उषा मार्टिन के सीएसआर गांवों में बागवानी एवं आजीविका संवर्द्धन के लिए प्रयास किया जा रहा है. रामकृष्ण मिशन एवं आइसीएर केंद्र प्लांट के सहयोग से प्राप्त पपीता के 80 पौधों को चतरा और हरतु गांव के लाभार्थियों

के बीच बांटा गया. उषा मार्टिन द्वारा ग्रामीणों के बीच पोषण संतुलन के लिए पपीता, केला, ओल एवं सहजान के पौधों को लगाया गया. अन्नगड़ा के चतरा गांव में सीएसआर के तहत टपक सिंचाई एवं पोषण संतुलन को बढ़ावा देने का कार्यक्रम चलाया गया है. उषा मार्टिन के बागवानी विशेषज्ञ शचिंद्र कुमार के माध्यम से किसानों की समस्या का समाधान कराया जा रहा है.

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<https://epaper.prabhatkhabar.com>

Figure-05: Paper Clipping

## आइएलओ ने जेनेवा की पत्रिका में उषा मार्टिन के कार्यों को सराहा

प्रमुख संवाददाता ▶ रांची

अंतरराष्ट्रीय श्रम संगठन ने उषा मार्टिन के द्वारा ग्रामीण विकास के क्षेत्र में किये जा रहे कार्यों की सराहना की है। संगठन ने ग्रामीण विकास के तहत स्वास्थ्य एवं एचआइवी जागरूकता के लिए किये जा रहे प्रयास की प्रशंसा की है। श्रम संगठन के 100 साल पूरा होने के उपलक्ष्य में जेनेवा में प्रकाशित संस्था की पत्रिका में सीएसआर के हेड डॉ मयंक मुरारी के संदेश को स्थान दिया गया है। इसमें डॉ मुरारी ने कहा है कि स्वस्थ जीवनशैली अपना कर ही एचआइवी और अन्य बीमारियों से बचा जा सकता है। इसे सभी स्वस्थ नागरिकों को अपनाना और बढ़ाना चाहिए।

झारखंड एड्स कंट्रोल सोसाइटी के उपनिदेशक देवाशीष चक्रवर्ती ने बताया कि झारखंड के स्तर पर दो संस्थानों सीसीएल और उषा मार्टिन का चयन



संगठन की पत्रिका में उषा मार्टिन के सीएसआर हेड डॉ मयंक मुरारी का छपा संदेश।

किया गया है। उषा मार्टिन के प्लांट हेड एसबीएन शर्मा ने विश्व श्रम संगठन द्वारा ग्रामीण विकास के कार्यों की सराहना पर हर्ष व्यक्त किया है। उन्होंने सीएसआर के माध्यम से गांव के विकास के प्रति कंपनी की प्रतिबद्धता दोहराई है। कंपनी अपनी डिस्पेंसरी और दो अस्पतालों के माध्यम से स्वस्थ गांव से स्वस्थ राज्य के निर्माण की दिशा में लगातार प्रयास कर रही है। श्रमिक नेता आरके मिश्रा और पर्सनल विभाग के हेड विवेक कृष्ण

ने कहा है कि उषा मार्टिन अपने सभी स्टिक होल्डर्स के विकास को लेकर योजना बनाकर कार्य कर रही है। राष्ट्रीय एड्स कंट्रोल सोसाइटी के सलाहकार आशीष वर्मा ने कारखाना परिसर में एक बैठक कर कामगारों, श्रमिक प्रतिनिधि, सीएसआर प्रतिनिधि तथा गांव की सहिया को उनके कार्य के लिए बधाई दी। उन्होंने कहा कि उषा मार्टिन विगत कई वर्षों से स्वास्थ्य के क्षेत्र में गुणात्मक सुधार के लिए कार्य कर रही है।

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Figure-06: Paper Clipping

विकास वजयवगाय, काषाध्यक्ष मनाष गढ़ाना, आदत्य मल्हाना उपास्थत थ. शक्षका का उपास्थात म भज.

## शिक्षा व जागरूकता से ही एचआइवी एड्स पर पा सकते हैं काबू : चक्रवर्ती

वरिय संवाददाता ▶ रांची

शिक्षा व जागरूकता ही एचआइवी एड्स के खिलाफ लड़ाई का सशक्त हथियार है। इसमें औद्योगिक संगठनों की अहम भूमिका है। उनके सहयोग से ही असंगठित मजदूरों एवं कामगारों के बीच अभियान चलाना एवं इस बीमारी पर विजय पाना संभव हो सकेगा। उक्त बातें झारखंड एड्स कंट्रोल सोसाइटी के उपनिदेशक देवाशीष चक्रवर्ती ने कही। वे गुरुवार को उषा मार्टिन परिसर में मजदूर, श्रमिक यूनियन, सहिया एवं स्वास्थ्य प्रतिनिधियों की बैठक को संबोधित कर रहे थे।



उषा मार्टिन परिसर में आयोजित बैठक में शामिल मजदूर, सहिया व श्रमिक यूनियन के लोग।

उषा मार्टिन के मजदूर नेता आरके मिश्रा ने कहा कि संस्थानों में पर्यावरण के साथ एचआइवी एड्स के बारे में भी जानकारी दी जानी चाहिए। उन्होंने कहा कि उषा मार्टिन परिसर के अंदर तथा ग्रामीणों के बीच सकारात्मक जागरूकता के साथ

मनोवृत्ति में गुणात्मक बदलाव के लिए लगातार प्रयास कर रही है। राष्ट्रीय एड्स कंट्रोल सोसाइटी के सलाहकार आशीष वर्मा ने कहा कि दीवार लेखन, कार्टून व होर्डिंग के माध्यम से जागरूकता बढ़ाने की जरूरत है।

Fri, 20 September 2019  
**प्रभात खबर** <https://epaper.prabhatkhabar.com/c/43781965>



o/c

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

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

To,  
The Deputy Commissioner,  
Ranchi.

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

Dear Sir,

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

Thanking you,

Yours faithfully,  
For USHA MARTIN LIMITED

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

Encl : As above.

CC ✓ The District Industries Centre  
Ratu Road, Ranchi.

Ranchi Municipal Corporation,  
Kutchery, Ranchi. ✓ *Patodia*  
*27-4-11*

The Zila Parishad, Ranchi.

The Chottanagpur Chamber of Commerce & Industries,  
Ranchi.

The Gram Panchayat,  
Vill : Tati, Ranchi.

The Gram Panchayat,  
Vill : Haratu, Ranchi.

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

Along with photocopy  
of one set of the above  
mentioned letter

*27 APR 2011*  
*रांची समाहर्णा*  
*पत्र प्राप्ति एवं वेळीय शाखा*

*27/4/11*  
*DIC Ranchi*  
*अनु. अ. कोष*

*27/4/11*  
**ZILA PARISHAD RANCHI**

**Jharkhand State Pollution Control Board**  
*Patodia*  
*27-4-2011*

**Federation of Jharkhand Industries**  
*Patodia*  
*27/4/11*



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**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

