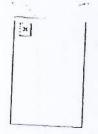
SPEED POST

Amount

Page 1 of 6



J 13011/10/2009-IA.II(T) Government of India Ministry of Environment & Forests BY SPEED POST

Paryavaran Bhawan CGO Complex, Lodi Road New Delhi-110 003 Dated: December 04, 2009

To

M/s Dhariwal Infrastructure (P) Ltd. 1008, A-Wing Lokmat Bhawanl, 10th Floor, Nagpur ? 400 012

2x300 MW Coal Based Thermal Power Plant in MIDC Industrial Area, at village Tadali, in Distt. Sub: Chandrapur, in Maharashtra ? reg. Environmental Clearance (reconsideration). Sir.

The undersigned is directed to refer to letters dated 18.08.2009 and 05.10.2009 on the subject mentioned above. The Ministry of Environment & Forests has examined the application.

- It has been noted that the proposal is for setting up a 2x300 MW Coal Based Thermal Power Plant in MIDC Industrial Area, at village Tadali, in Distt. Chandrapur, in Maharashtra. Land requirement will be 480 acres. Coal requirement will be 11040 TPD and will be sourced from SECL mines. Coal linkage has been obtained from Ministry of Coal. The coordinates of the site are latitude 20000730? to 20^O 01?20? N and longitude 79^O11?50? to 79^O12?35 E?. Water requirement of 19.272 mcum per annum will be sourced from Wardha River which flows at a distance of 9.3 km from the plant site. Govt. of Maharashtra has accorded permission for water allocation from Wardha River. A Barrage is proposed to be constructed in Wardha River for uninterrupted water supply. There are no national parks, wildlife sanctuary, tiger & elephant reserves, heritage sites etc. within 10 km of the study area. MoU with M/s ACC for consumption of Fly Ash for its Chanda Cement Works is in place. As a contingency measure 65.2 acres of land is proposed for ash storage, which will be properly lined with HDPE. Abandoned mines are being identified within the District for disposal of bottom ash. Bhandak Reserve Forest is located at a distance of 7.8 kms away. Motaghat nallah flows at a distance of 6.2 km away in the east and Sarai Nallah at 5.0 km in South. Cost of the project will be Rs. 3054.00 Crores.
- The project has been considered in accordance with the provisions of the EIA notification issued. v the Ministry of Environment & Forests vide S.O. 1533 (E), dated September 14, 2006
- Based on the information submitted by you, as at Para 2 above and others, the Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA notification dated September 14, 2006, subject to the compliance of the following
- No further expansion in capacity shall be permitted for this Power Plant in view of the uncertainty
- The two radial wells shall be constructed maintaining a distance of at least 450 m between them ii. and at least 500 m from the nearest habitations/village boundary.

-2-

111. Water from the radial well(s) shall be utilized only for extreme necessity during lean season and shall be kept only as standby arrangement during lean season.

- iv. Hydro-geological study or the area shall be reviewed annually and results submitted to the Ministry and concerned agency in the State Govt. In case adverse impact on ground water quantity and quality is observed, immediate mitigating steps to contain any adverse impact on ground water shall be undertaken.
- v. A Two Bi-Flue stacks of 275 m height shall be provided with continuous online monitoring equipments for SOx, NOx and PM. Exit velocity of flue gases shall not be less than 25 m/sec. Mercury emissions from stack shall also be monitored on periodic basis.
- vi. High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm³.
- vii. 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.
- Viii. Utilisation of 100% Fly Ash generated shall be made from 4th year of operation of the plant. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.
- ix. Fly ash shall be collected in dry form and storage facility (silos) shall be provided. 100% fly ash utilization shall be ensured from 4th year onwards. 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 off in low lying area.
- x. Ash pond shall be lined with HDP/LDP lining or any other suitable impermeable media suh 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.
- xi. For disposal of Bottom Ash in abandoned mines (if proposed to be undertaken) it shall be ensured that the bottom and sides of the mined out areas are adequately lined with clay before Bottom Ash is filled up. The project proponent shall inform the State Pollution Control Board well in advance before undertaking the activity.
- xii. Closed cycle cooling system with natural draft cooling towers shall be provided. The Effluents shall be treated as per the prescribed norms.
- xiii. The treated effluents conforming to the prescribed standards only shall be discharged. Arrangements shall be made that effluents and storm water do not do not get mixed.
- xiv. A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/plantation.

-3-

xv. Rainwater harvesting should be adopted. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three

mentine from the dam or clearance and details shall be furnished.

- 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 Office of the Ministry.
- 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 in case of an accident taking place due to storage of oil.
- existing wells and constructing new piezometers. Monitoring around the ash pond area shall be 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.
- xix. Green Belt consisting of 3 tiers of plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised and per ha with survival rate not less than 70 %.
- XX. First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
- 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 areas such as turbine area, air compressors etc. shall be periodically examined to maintain noisy areas.
- Regular monitoring of ground level concentration of SO₂, NOx, RSPM(PM₁₀/PM_{2.5}) and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are provided to exceed the prescribed limits, necessary control measures shall be provided 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.
- xxiii. A good action plan for R&R (if applicable) with package for the project affected persons be submitted and implemented as per prevalent R&R policy within three months form the date of
- An amount of Rs 12.0 Crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs 3.0 Crore per annum shall be shall be submitted within one month along with road map for implementation.

-4

As part of CSR programme the company shall conduct need based assessment for the nearby villages 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

- pesines development of fodder form, fruit bearing orchaids, vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. This will be in addition to vocational training for individuals imparted to take up self employment and jobs.
- Provision shall be made for the housing of construction labour within the site with all XXVI. necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- XXVII. 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 Forests at http://envfor.nic.in.
- XXVIII. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
- xxix. A separate Environment Management Cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- XXX. The proponent shall upload the status of compliance of the stipulated EC 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(PM₁₀/PM_{2.5}), 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.
- XXXI. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by e- mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and
- The environment statement for each financial year ending 31st March in Form-V as is XXXII. 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 EC conditions and shall also be sent to the respective Regional Offices of the
 - The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of

-5-

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

XXXIII.

Environment and Forests

- Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NOx (from stack & ambient air) shall be displayed at the main gate of the power plant.
- xxxv. 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.
- xxxvi. 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.
 - Office of the Ministry at Bangalore / CPCB/ SPCB who would be monitoring the compliance of environmental status.
 - 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.
 - The environmental clearance accorded shall be valid for a period of 5 years to start operations by the power plant.
 - 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.
- 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.
 - 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.

-6-

 Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred, within 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.

(LALIT KAPUR)

DIRECTOR

Copy to:-

- The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001. 1.
- 2. The Secretary (Environment), Forests and Environment Department Government of 3.
- The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066. 4.
- The Chairman, Maharashtra Pradesh State Pollution Control Board, Kalpataru Point, 3rd & 4th Floors, Sion Matunga Scheme Road No. 6, Opp. cine Planet, Sion Circle, Sion (E), Mumbai ?
- The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, 5.
- The Chief Conservator of Forests, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, 6. Arera Colony, Ravishankar Nagar, Bhopal - 462016. 7.
- The District Collector, Chandrapur District, Govt. of Maharashtra. 8.
- The Director (EI), MOEF.
- 9. Guard file.
- 10. Monitoring file.

(LALIT KAPUR) DIRECTOR

10,





Dhariwal Infrastructure Lim

CIN: U70109WB2006PLC111457 E-mail: dhariwalinfrastructure@rp-sg.in Date: 29/11/2018

Ref. No.: DIL/HSE/F-09/18-19/52

To.

The APCCF (C),

Ministry of Environment and Forest, Climate Change,

Regional Office (WCZ) Ground Floor,

East Wing, New Secretariat Building,

Civil Line.

NAGPUR - 440001 (MH)

Sub.: Half Yearly Compliance Report of the Environmental Clearance (1st April 2018 to 30th September 2018)

Ref.: MoEF, Govt. of India Environmental Clearance No. J-13011/10/2009-1A. II (T) dated 04-12-2009

We are operating 2 x 300 MW Thermal Power Plant at MIDC, Tadali Industrial Area, Chandrapur (M.S.) as per Environment Clearance under reference.

We are submitting herewith Half Yearly Compliance Report for the period from 1st April 2018 to 30th September 2018 in hard as well as soft copy (compact disc) in respect of the terms and conditions stipulated in Environmental Clearance.

We assure you of taking every feasible step towards preservation of environment.

Thanking you,

Yours faithfully,

For DHARIWAL INFRASTRUCTURE LTD.

(Biplab Kanti Kar)

Head O & M

Encl.: As above

CC:

The Incharge,

Central Pollution Control Board, Western Zonal Office, Parivesh Bhawan, Opp. VMC Ward Office No.10, Subhanpara, Vadodara, Gujarat-390023.

3. The Regional Officer,

Maharashtra Pollution Control Board, 1st Floor, Udyog Bhavan, Near Bus Stand, Chandrapur-442406.

Page 1 of 52

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय Ministry of Environment, Forest & Climate Change क्षेत्रीय कार्यालय (पश्चिम मध्य क्षेत्र) Regional Office (Western Central Zone) पूर्व खंड / Groups Floor, East Wing ... Secretario! 7

Member Secretary,

Ring releasion in 1864

Maharashtra Pollution Control Board, Kalpataru Point, 4th Floor, Matunga Road-08, Sion-(E), Sion Circle, Mumbai-400022.

The Sub Regional Officer,

Maharashtra Pollution Control Board, 1st Floor, Udyog Bhavan, Near Bus Stand, Chandrapur-442406.





Dhariwal Infrastructure Limi

CIN: U70109WB2006PLC111457 E-mail: dhariwalinfrastructure@rp-sg.in

Date: 29/11/2018

Ref. No.: DIL/HSE/F-09/18-19/52

To.

The APCCF (C),

Ministry of Environment and Forest, Climate Change,

Regional Office (WCZ) Ground Floor,

East Wing, New Secretariat Building,

Civil Line.

NAGPUR - 440001 (MH)

Sub. : Half Yearly Compliance Report of the Environmental Clearance (1st April 2018 to 30th September 2018)

Ref.: MoEF, Govt. of India Environmental Clearance No. J-13011/10/2009-IA. II (T) dated 04-12-2009

We are operating 2 x 300 MW Thermal Power Plant at MIDC, Tadali Industrial Area, Dear Sir, Chandrapur (M.S.) as per Environment Clearance under reference.

We are submitting herewith Half Yearly Compliance Report for the period from 1st April 2018 to 30th September 2018 in hard as well as soft copy (compact disc) in respect of the terms and conditions stipulated in Environmental Clearance.

We assure you of taking every feasible step towards preservation of environment.

Thanking you,

Yours faithfully,

For DHARIWAL INFRASTRUCTURE LTD.

(Biplab Kanti Kar)

Head O & M

Encl.: As above

CC:

The Incharge, 1.

Central Pollution Control Board, Western Zonal Office, Parivesh Bhawan, Opp. VMC Ward Office No.10, Subhanpara, Vadodara, Gujarat-390023.

3. The Regional Officer,

Maharashtra Pollution Control Board, 1st Floor, Udyog Bhavan, Near Bus Stand, Chandrapur-442406.

Page 1 of 52

Member Secretary,

Maharashtra Pollution Control Board, Kalpataru Point, 4th Floor, Matunga Road-08, Sion-(E), Sion Circle, Mumbai-400022.

4. The Sub Regional Officer,

Maharashtra Pollution Control Board, 1st Floor, Udyog Bhavan, Near Bus Stand, Chandrapur-442406.

Environmental Compliance Report for the Period From 1st April 2018 to 30th September 2018

Of

M/s. DHARIWAL INFRASTRUCTURE LTD.
Plot No. C-6, C-7 & C-8,
Tadali Industrial Area,
MIDC, Village – Tadali,
Dist. - Chandrapur

Submitted to

Ministry of Environment, Forest and Climate Change
Regional Office (WCZ), Ground Floor, East Wing
New Secretariat Building
Civil Line, Nagpur – 440001 (MH)

1.0 PREAMBLE

Dhariwal Infrastructure Ltd has been granted MoEF Environmental Clearance for 2 x 300 MW Thermal Power Plant vide no. J-13011/10/2009-IA. II (T) dated 04-12-2009

Both Unit -1 & 2 (2 x 300 MW) of Thermal Power Plant are installed and commissioned in October 2013 and June 2014 respectively. The MPCB Consent to Operate is granted to both units for the period valid up to 31-12-2018.

All the environmental Protection & Conservation works including air pollution control systems, effluent treatment plant, sewage treatment plant, rain water harvesting pond, greenbelt development activities etc are completed. The present compliance status is given below.

2.0 COMPLIANCE STATUS

The conditions stipulated in MoEF Environmental Clearance are followed scrupulously. Compliance is reported here under for the period from 1st April 2018 to 30th September 2018 in scrial order of Environmental Clearance Letter as delineated below.

Sr. No.	Conditions	Compliance
(i)	No further expansion shall be permitted for this power plant in view of the uncertainty of water in lean season.	Further expansion will not be carried out in view of the uncertainty of water in lean season.
(ii)	The two radial wells shall be constructed maintaining a distance of at least 450 m between them and at least 500 m from the nearest habitations/village boundary.	Yes, radial well is constructed away from the nearest habitation (more than 500 m)
(iii)	Water from the radial well(s) shall be utilized only for extreme necessity during lean season and shall be kept only as standby arrangement during lean season.	Water from the radial well(s) is utilized only for extreme necessity during lean season and kept only as standhy arrangement during lean season.
(iv)	Hydro-geological study of the area shall be reviewed annually and results submitted to the Ministry and concerned agency in the State Govt. In case adverse impact on ground water quantity and quality is observed, immediate mitigating steps to contain any adverse impact on ground water shall be undertaken.	Hydro-geological status of the area is reviewed regularly. Ground water level measurement reports (April 2018 to September 2018) are enclosed herewith as Enclosure-1. There is no adverse impact on ground water quantity and quality is observed. Ground water quality in the study area is regularly analyzed and reports (April 2018 to September 2018) are enclosed herewith as Enclosure -2
(v)	Two Bi-Flue stacks of 275 m height shall be provided with continuous online monitoring equipments for SOx, NOx and PM. Exit velocity of flue gases shall not be less than 25 m/sec. Mercury emissions from stack shall also be monitored on periodic basis.	Yes, two Bi-Flue stacks of 275 m height are provided with continuous online monitoring equipments for SOx, NOx and PM. Mercury in outgoing emissions from stack is also being monitored on periodic basis
(vi)	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to	Yes, High Efficiency Electrostatic Precipitator (ESP) for unit 1& 2 are

	ensure that particulate emission does not exceed 50 mg/Nm ³ .	commissioned and in operation. Both ESP's are designed to ensure that particulate emission does not exceed 50 mg/Nm ³ . The analysis reports of stack emission monitoring for both units are enclosed as Enclosure-3
(vii)	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.	Yes, 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 are provided and all stipulated norms are complied.
(viii)	Utilization of 100% Fly Ash generated shall be made from 4 th year of operation of the plant. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	Yes, 100% Fly Ash generated is being taken by nearby cement plants for cement manufacturing.
(ix)	Fly ash shall be collected in dry form and storage facility (silos) shall be provided 100% fly ash utilization shall be ensured from 4 th year onwards, 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 off in low lying area.	Yes, fly ash silo & handling plant for direct loading to bulkers is in operation. The condition is fully complied. Please refer Enclosure-4
(x)	Ash pond shall be lined with HDP/LDP 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.	Yes, Ash pond is lined with HDP/LDP lining such that no leachate takes place at any point of time. Adequate safety measures are also implemented to protect the ash dyke from getting breached.
(xi)	For disposal of Bottom Ash in abandoned mines (if proposed to be undertaken) it shall be ensured that the bottom and sides of the mined out areas are adequately lined with clay before Bottom Ash is filled up. The project proponent shall inform the Slate Pollution Control Board well In advance before undertaking the activity.	All appropriate precaution will be taken whenever Bottom Ash is planned to disposed off in abandoned mines. At present we have agreement with 10 Brick manufacturers and giving to them.
(xii)	As par revised EC dated 09/09/2010 closed cycle cooling tower with Induced draft cooling towers shall be provided. The Effluents shall be treated as per the prescribed norms.	Closed cycle cooling system with Induced draft cooling towers is provided. The effluents are treated as per the prescribed norms and for bottom ash handling & also for horticulture purpose. Refer Enclosure-4

(xiii)	The treated effluents conforming to the prescribed standards only shall be discharged. Arrangements shall be made that effluents and storm water do not get mixed.	The treated effluents conforming to the prescribed standards are used for green belt development. Arrangements are made such that effluents and storm water do not get mixed. Please refer Enclosure-4
(xiv)	A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/plantation.	Sewage treatment plant is provided and the treated sewage is used for raising greenbelt/plantation.
(xv)	Rainwater harvesting should be adopted Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished.	Rain water harvesting pond is developed and through natural drains, rain water is regularly collected.
(xvi)	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.	Provision of adequate safety measures in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season is made. Water sprinkler have been provided around coal stock yard and are kept in regular operation.
(xvii)	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.	Facilities for storage of auxiliary liquid fuel such as LDO and HSD are provided in the plant areas are under approval of DOE. Disaster Management Plan is prepared to meet any eventuality in case of an accident may be taken place due to storage of oil.
(xviii)	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.	Regular monitoring of ground water level is done in and surrounding areas. It is observed that there is no adverse impact in the area. The ground water quality in the study area is also regularly analyzed for heavy metals and reports are submitted.
(xix)	Green Belt consisting of 3 tiers of plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised and adequate	As on date about 1,22,500 trees are existing. The major existing trees (57,500) are Akeshiya, Imli, Karanj, Mahaneem,

Neem, Nilgiri, Peltoforam, Sisam and justification shall be submitted to the Ministry. Tree density shall not less than Casia, casurina, Eucalyptus etc. 2500 per ha with survival rate not less The other existing trees (65,000) are than 70 %. Aapta, Amla, Anjeer, Areka Palm, Aerial Palm, Arjun ,Ashoka, Bargad, Badam, Banana, Boganvel, Chikku, Coconut, Flower tree, Fucus benjamina, Bambu. Goldan Bambu, Green Gulmohar, Jambhul Jaswant, Kadam, Kanher ,Kawat, Mahagani, Mango, Mogra Mosambi, Nimbu, Pipal, Rain Tree. Red Rose. Royal Palm. Ornamental Plants, Saru ,Simal, Spindal Palm, Silver oke, Swastik, Vel (Kourav & Pandava), Vidya, X-mas tree, Yellow Bell, Bakul, Papaya, Sitaphal, Bel, Shahtut ,Anar, Sevga, Amrud,Ber, Kher etc. . First Aid and sanitation arrangements Construction phase is over. First Aid (xx)and sanitation arrangements for the shall be made for the drivers and other contract workers during construction drivers and other contract workers are available. Regular first aid training is phase. given to drivers & contract workers. Noise level emanating from turbines Noise level emanating from turbines is (xxi) shall be so controlled such that the noise controlled such that the noise in the work zone is limited to 75 dB (A). For in the work zone shall be limited to 75 dB(A). For people working in the high people working in the high noise area, noise area, requisite personal protective requisite personal protective equipment equipment like earplugs/ear muffs etc. earplugs/ear muffs etc. shall be provided. Workers engaged in Workers engaged in noisy provided. noisy areas such as turbine area, air areas as turbine area, such compressors etc. shall be periodically periodically compressors etc. are examined to maintain audiometric record examined & maintaining audiometric record and any hearing loss including and any hearing loss including shifting to non noisy/less noisy areas. shifting to non noisy/less noisy areas. The workzone noise quality results are enclosed herewith as Enclosure-5. regular ambient air Regular monitoring of ground level quality (xxii) concentration of SO2, NOx, RSPM monitoring at six locations is carried out (PM₁₀/PM₂₅) and Hg shall be carried out and reports (April 2018 to September in the impact zone and enclosed herewith records 2018) are maintained. If at any stage these levels Enclosure -6.Data are connected with are found to exceed the prescribed limits, MPCB/CPCB Website. necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of decided monitoring shall be consultation with SPCB. Periodic reports shall be submitted to the Regional Office of the Ministry. The data shall also be put

	on the website of the company.	
(xxiii)	A good action plan for R&R (if applicable) with package for the project affected persons be submitted and implemented as per prevalent R&R policy within three months form the date of issue of this letter.	Not Applicable.
(xxiv)	An amount of Rs. 12.0 Crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs. 3.0 Crore per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within month along with road map for implementation.	Road map is worked out for implementation of CSR activities. A partnership along with Zila Parishad, Chandrapur & UNICEF for improving water & sanitation facilities in ten Grampanchayat, Schools and Anganwadis is done and work is under progress. Please refer Enclosure-7
(xxv)	As par of CSR programme the company shall conduct need based assessment for the nearby villages 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 besides 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 programs. This will be in addition to vocational training for individuals imparted to take up self employment and jobs.	A need based survey is carried out by Social Action for Rural Development (SARDA) in nearby areas to assess the social and economic status of the people based on which a comprehensive document is prepared to deal with need based CSR activities. The implementation of following CSR activities undertaken in the aforesaid period. 1. Training on Health & Sanitation in nearby nine no. of villages. 2. Swachh Bharat Abhiyan in Nine villages. 3. Training to Adolescent girls 4. Training to villagers of nine villages for Digital villages. 5. Agriculture Projects in nearby villages. 6. Educational Programs in nearby villages. 7. Training to six nos. of SHG(Self Help Groups) for self employment. Please refer Enclosure-7
(xxvi)	Provision shall be made for the housing of construction labors within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc The housing may	Yes, Construction phase is already completed and demolition of temporary structures of construction phase is under progress.

	be in this form of temporary structures to be removed after the completion of the project.	
(xxvii)	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 Forests at http://envfor.nic.in	
(xxviii	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, urban local body and the local NGO, if any, from whom suggestions/representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Yes, it is complied.
(xxix)	A separate Environment Management Cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Yes, separate Environment Management Cell with qualified staff is set up for implementation & maintaining the stipulated environmental safeguards.
(xxx)	The proponent shall upload the status of compliance of the stipulated EC 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 (PM ₁₀ /PM _{2.5}) SO ₂ 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.	Yes, it is complied. Status of compliance has been uploaded on company's website, i.e. www.dilenergy.co.in Reports are already sent to Regional office of MoEF, the respective Zonal office of CPCB and the SPCB. The criteria pollutant levels namely: SPM, RSPM (PM10/PM 2.5) So2, and NOx (ambient levels are displayed at the main gate of the company in the public domain.
(xxxi)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by email) to the respective Regional Office of	Yes, six monthly reports are regularly submitted since beginning about the status of compliance of the stipulated EC conditions including results of monitored to the respective Regional office of MoEF, the respective Zonal

	MoEF, the respective Zonal Office of CPCB and the SPCB.	office of CPCB and the SPCB.
(xxxii)	The environment statement for each financial /year ending 31 st 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 off the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	Yes, Environment Statement for financial /year ending 31 st March 2018 is complied and submitted to MPCB. Acknowledged letter copy is enclosed herewith as Enclosure -9 . Copy of the same has been uploaded on company's website, i.e. www.dilenergy.co.in.
(xxxiii)	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.	Yes, six monthly reports are regularly submitted since beginning about the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests Regional office, Central Pollution Control Board and State Pollution Control Board. Copy of the same has been uploaded on company's website, i.e. www.dilenergy.co.in.
	Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will upload the compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NOx (from slack & ambient air) shall be displayed at the main gate of the power plant.	
(xxxiv)	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	Yes, separate funds are allocated for implementation of environmental protection measures. Total Expenses from 1 st April.18 to 30 th September 2018 were 314.5 lakhs for Environment

	earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	control measures.
(xxxv)	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.	Plant is in running condition.COD for unit #1 was on dated 11 Feb. 2014 & for unit #2 was 02th Aug. 2014. Information has been given to the authorities.
(xxxvi)	Full cooperation shall be extended to the Scientists/Officers from the Ministry/Regional Office of the Ministry at Bliopal/CPCB/SPCB who would be monitoring the compliance of environmental status.	Agreed.

Yours faithfully, For **DHARIWAL INFRASTRUCTURE LTD.**

(Biplab Kanti Kar) Head O & M

Encl.: As above

ENCLOSURE - 1

GROUND WATER LEVEL STATUS

May - 2018

Sr. No. of Villages	Village Name	Details of Locations	Field Code No.	Date of Measurement	Internal Diameter in mtr. (m)	Total Depth from measuring point in mtr.(depth in mbmp)	Static Water Level from Measuring Feint in mtr.(level in mbmp)	Measuring Point i.e. MP distance above ground level in mtr. (magl)	Water Level below ground level (level in mbmp - magl = mbgl)	
1	Village- Pandharkwada	Dugwell of Shri Pandari Zitraji Wadai Farm	DIL 1	15-05-2018	2.55	9.5	8.90	0.8	8.1	
2.	Village- Sonegaon	Grampanchayat Dugwell,Near Hanuman Mandir	DIL 2	15-05-2018	4.10	8.6	8.10	0.8	7.3	
3.	Village- Sonegaon	Borewell of Shri Kundlik Vishwanath Urkude,	DIL 3	15-05-2018	0.16	80.0	7.20	0.1	7.1	
4.	Village- Yerur	Dugwell of Shri Ravindra Pandurangji Balki	DIL 4	15-05-2018	6.0	9.5	8.30	0.1	8.20	
5.	Village- Wandhari	Dugwell of Shri Anandrao Vithoba Kawarashe Farm	DIL 5	15-05-2018	5.0	10.3	8.20	0.2	8.0	

9	Villa:a- Varur	Gramnanchavat								-
5		Dugwell near Primary School	DIL 6	15-05-2018	4.95	11.0	9.10	0.7	8.40	
7.	Village- Ghodpeth	Dugwell of Shiv Mandir	DIL 7	15-05-2018	450	0.6	7.40	9.0	8.9	_
8	Village- Tadali	Grampanchayat Dugwell Near Z. P. Primary School	DIL 8	15-05-2018	3.65	12.35	9.80	0.8	9.0	-
9.	Village- Morwa	Dugwell near Jagnath Baba Mandir	DIL 9	15-05-2018	240	14.80	7.70	0.8	6.9	
10.	Village- Mursa	Grampanchayat. Dugwell near Z.P. Primary School	DIL 10	15-05-2018	4.0	10.8	9.10	4.4	4.7	-
11.	MIDC, Tadali	Piezometer Well No.5 near Chimney Area	DIL 11	15-05-2018	0.1	15.0	10.2	0.2	10.0	-
12.	MDC,Tadali	Piezometer Well No.4 behind Site Office near Cooling Tower, DIL	DIL 12	15-05-2018	0.1	15.0	9.80	0.1	6.7	
13	Villa≣e- Wadha	Intake Well	DIL 12	15-05-2018	11.0	21.8	15.3	2.20	31.1	-
Note: All	the abese Ground W	Note: All the above Ground Water Level Analysis were done by MOEF	e done b	y MOEF Approved	13rd party M	Approved 3rd party Ms Earth care Fvt. Ltd.	d.			

August-2018

Sr. No. of Villages	Village Name	Details of Locations	Field Code No.	Date of Measurement	Internal Diameter in mtr. (m)	Totel Depth from reasuring pcint in mtr.(depth in mbmp)	Static Water Level from Measuring Point in mtr.(level in mbmp)	Measuring Point i.e. MP distance above ground level in mtr. (magl)	Water Level below ground level (level in mbmp - magl = mbgl)
	Village- Pandharkwada	Dugwell of Shri Pandari Zitraji Wadai Farm	DIL 1	08-08-2018	2.55	9.5	6.9	0.8	6.1
5	Village- Sonegaon	Grampanchayat Dugwell,Near Hanuman Mandir	DIL 2	08-08-2018	4.10	9.8	5.80	0.8	5.0
e,	Village- Sonegaon	Borewell of Shri Kundlik Vishwanath Urkude,	DIL 3	08-08-2018	0.16	30.0	4.50	0.1	3.5
4.	Village- Yerur	Dugwell of Shri Ravindra Pandurangji Balki	DIL 4	08-08-2018	6.0	9.5	5.30	0.1	5.2
۶.	Village- Wandhari	Dugwell of Shri Anandrao Vithoba Kawarashe Farm	DIL 5	08-08-2018	5.0	10.3	3.50	0.2	3.3
.9	Village- Yerur	Grampanchayat Dugwell near Primary School	DIL 6	08-08-2018	4.95	11.0	6.80	0.7	6.1
7.	Village- Ghodpeth	Dugwell of Shiv Mandir	DIL 7	08-08-2018	4.50	9.0	3.10	9.0	2.5
∞	Village- Tadali	Grampanchayat Dugwell Near Z. P. Primary School	DIL 8	08-08-2018	3.65	12.35	3.20	0.8	2.4
.6	Village- Morwa	Dugwell near Jagnath Baba Mandir	DIL 9	08-08-2018	2.40	М.80	2.80	0.8	2.0

9		.,		3.00
Water Level below ground level (level in mbmp - magl = mbgl)	0.2	24.8	,	11.8
Measuring Point i.e. MP distance above ground level in mtr. (magl)	4.4	0.2	0.1	2.20
Static Water Level from Measuring Point in mtr.(level in mbmp)	4.40	25.0	·	14.0
Total Depth from measuring point in mtr.(depth in mbmp)	10.8	15.0	15.0	21.8
Internal Diameter in mtr. (m)	7.0	0.1	0.1	11.0
Date of Measurement	08-08-2018	08-08-2018	08-08-2018	08-08-2018
Field Code No.	DIL 10	DIL 11	DIL 12	DIL 12
Details of Locations	Grampanchayat. Dugwell near Z.P. Primary School	Piezometer Well No.5 near Chimney Area	Piezometer Well No.4 behind Site Office near Cooling Tower, DIL	Intake Well
Sr. No. of Village Name Villages	Village- Mursa	MIDC, Tadali	MIDC,Tadali	Village- Wadha
Sr. No. of Villages	10.	11.	12.	13

Note: All the above Ground Water Level Analysis were done by MOEF Approved 3rd party M/s Earth care Pvt. Ltd.

ENCLOSURE -2

WATER QUALITY STATUS

			Tark.	Concer	Concentration Location	
Sr. No.	Parameters	Acceptable / Permissible Limit (IS 10500: 2012)	Dugwell Water (Mr. Pandari Zitraji Wadai Farm, Village- Pandharkawda)	Borewell Water (Gram Panchayat Borewell near Hanuman Mandir, Village- Sonegaon)	Borewell Water (Mr. Kundlik Vishwanath Urkude Farm, Village-Sonegaon)	Dugwell Water (Mr. Ravindra Pandurang Bulki Farm, Village- Yerur)
			15-05-2018	15-05-2018	15-05-2018	15-05-2018
	Colour, Hazen units	5/15	1.0	1.0	1.0	1.0
	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
	pH value	6.5 to 8.5	7.57	7.50	7.63	8.34
	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
	Turbidity, NTU	1/5	<0.1	<0.1	<0.1	0.2
	Total dissolved solids, mg/l	500/2000	1909	1282.0	432.0	559.0
	Boron (as B) mg/l	0.5/1.0	0.193	0.142	0.021	0.024
	Calcium (as Ca) ,mg/l	75/200	296.0	158.4	70.4	50.4
	Chloride (as CI), mg/l	250/1000	349.9	199.9	18.9	16.5
	Copper (as Cu), mg/l	0.05/1.5	0.09	0.08	<0.006	<0.006
	Fluoride (as F), mg/l	1.0/1.5	0.35	0.563	66.0	1.48
	Free Residual Chlorine, mg/l	0.2/1.0	<0.1	<0.1	<0.1	<0.1

0.043	0.97	<0.003	0.47	49.9	308.1	130.0	0.063	<0.01	<0.001	<0.01	<0.005	2.0	Not Detected	
0.07	16.6	<0.003	0.51	27.2	297.9	244.0	60.0	<0.01	<0.001	<0.01	<0.005	Not Detected	Not Detected	Man de la company
0.125	14.6	<0.003	2.31	85.4	252.5	456.0	0.21	<0.01	<0.001	<0.01	0.027	Not Detected	Not Detected	7
0.143	32.4	<0.003	3.48	144.2	343.4	872.0	0.22	<0.01	<0.001	<0.01	0.051	Not Detected	Not Detected	
0.3	30/100	0.1/0.3	45	200/400	200/600	300/600	5/15	0.01	0.05	0.01	0.05	Not Detected	Not Detected	;
Iron (as Fe), mg/l	Magnesium (as Mg), mg/l	Manganese (as Mn), mg/l	Nitrate (as NO ₃), mg/l	Sulphate (as SO ₄), mg/l	Total Alkalinity (as CaCO ₃) mg/l	Total Hardness(as CaCO ₃) mg/l	Zinc (as Zn) mg/l	Lead (as Pb) mg/l	Mercury (as Hg) mg/l	Total Arsenic (as As) mg/l	Total Chromium (as Cr) mg/l	Total Coliform Bacteria, (CFU /100 ml)	Thermotolerant Coliform Bacteria/E. Coli (CFU /100 ml)	
13	14	15	16	17	18	61	20	21	22	23	24	25.	26.	

Note: 1) All the above Ground Water Quality Analysis were done by MOEF Approved 3rd party M/s Earth care Pvt. Ltd. 2) Information given to local panchayat through DIL CSR team for the necessary treatment & assistance.

				Concentration	tration	
		Accentable /		Location	tion	
	Parameters	Permissible Limit (IS 10500: 2012)	Dugwell Water of Hanuman Mandir, Village- Wandhri	Dugwell Water (Near Jagnath Baba Mandir, Morwa)	Dugwell Water (Stiv Mandir, Village— Ghodpeth)	Dugwell Water (Grampanchyat Dugwell Near ZP Primary School, Village – Tadali)
_			15-05-2018	15-05-2013	15-05-2018	15-05-2018
	Colour, Hazen units	5/15	1.0	3.0	1.0	1.0
	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
	pH value	6.5 to 8.5	7.30	7.60	7.48	7.20
	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
	Turbidity, NTU	1/5	<0.1	0.3	<0.1	<0.1
	Total dissolved solids, mg/l	500/2000	1643.0	561.0	532.0	
	Boron (as B) mg/l	0.5/1.0	0.12	0.062	0.042	0.219
	Calcium (as Ca) ,mg/l	75/200	230.4	9.68	88.0	Nil
	Chloride (as Cl), mg/l	250/1000	214.9	37.9	36.5	
	Copper (as Cu), mg/l	0.05/1.5	0.021	0.021	>0.006	0.32
	Fluoride (as F), mg/l	1.0/1.5	1.11	0.586	09:0	0.35
	Free Residual Chlorine, mg/l	0.2/1.0	<0.1	<0.1	<0.1	7.41

	T	1	T	1	1	1	1	ī	T	1			ı
0.13	5.84	0.00	<0.2	120.3	429.3	24.0	0.214	<0.01	<0.001	<0.01	0.007	Not Detected	Not Detected
0.062	12.7	<0.003	0.24	33.8	313.1	272.0	0.126	<0.01	<0.001	<0.01	<0.005	Not Detected	Not Detected
0.07	15.6	<0.003	0.31	36.3	328.3	288.0	0.212	<0.01	<0.001	<0.01	<0.005	Not Detected	Not Detected
0.125	70.1	<0.003	3.86	127.4	455.0	288.0	0.192	<0.1	<0.001	<0.1	0.005	Not Detected	Not Detected
0.3	30/100	0.1/0.3	45	200/400	200/600	300/600	5/15	0.01	0.05	0.01	0.05	Not Detected	Not Detected
Iron (as Fe), mg/l	Magnesium (as Mg), mg/l	Manganese (as Mn), mg/l	Nitrate (as NO ₃), mg/l	Sulphate (as SO ₄), mg/l	Total Alkalinity (as CaCO ₃) mg/l	Total Hardness (as CaCO ₃) mg/l	Zinc (as Zn) mg/l	Lead (as Pb) mg/l	Mercury (as Hg) mg/l	Total Arsenic (as As) mg/l	Total Chromium (as Cr) mg/l	Total Coliform Bacteria, (CFU /100 ml)	Thermotolerant Coliform Bacteria/E. Coli (CFU /100 ml)
13	14	15	16	17	18	19	20	21	22	23	24	25.	26.

Note: 1) All the above Ground Water Quality Analysis were done by MOEF Approved 3rd party M/s Earth care Pvt. Ltd.

²⁾ Information given to local panchayat through DIL CSR team for the necessary treatment & assistance.

Sr. No.	Parameters	Acceptable / Permissible Limit (IS 10500: 2012)	Ground Water fron Intake Well near Wadha Village
		10500: 2012)	15-05-2018
1.	Colour, Hazen units	5/15	2.0
2.	Odour	Agreeable	Agreeable
3.	pH value	6.5 to 8.5	8.18
4.	Taste	Agreeable	Agreeable
5.	Turbidity, NTU	1/5	<0.1
6.	Total dissolved solids, mg/l	500/2000	507.0
7.	Boron (as B) mg/l	0.5/1.0	0.021
8.	Calcium (as Ca) ,mg/l	75/200	76.8
9.	Chloride (as Cl), mg/l	230/1000	34.9
10.	Copper (as Cu), mg/l	0.05/1.5	< 0.006
11.	Fluoride (as F), mg/l	1.0/1.5	0.58
12.	Free Residual Chlorine, mg/l	0.2/1.0	0.1
13	Iron (as Fe), mg/l	0.3	0.072
14	Magnesium (as Mg), mg/l	30/100	38.9
15	Manganese (as Mn), mg/l	0.1/0.3	< 0.003
6	Nitrate (as NO3), mg/l	45	0.38
7	Sulphate (as SO4), mg/l	200/400	95.4
8	Total Alkalinity (as CaCO3) mg/l	200/600	131.3
9	Total Hardness (as CaCO3) mg/l	300/600	352.0
20	Zinc (as Zn) mg/l	5/15	0.09
21	Lead (as Pb) mg/l	0.01	< 0.01
2	Mercury (as Hg) mg/l	0.05	< 0.001
3	Total Arsenic (as As) mg/l	0.01	< 0.01
4	Total Chromium (as Cr) mg/l	0.05	< 0.005
5	Total Coliform Bacteria, (CFU /100 ml)	Shall not be Detectable	Not Detected
16	Thermotolerant Coliform Bacteria/E. Coli (CFU /100 ml)	Shall not be Detectable	Not Detected

Note: 1) All the above Ground Water Quality Analysis were done by MOEF Approved 3^{rd} party M/s Earth care Pvt. Ltd.

²⁾ Information given to local panchayat through DIL CSR team for the necessary treatment & assistance.

				Concentration	ation	
		A good day		Location	lon	
Sr. No.	Parameters	Acceptable Permissible Limit (IS 10500: 2012)	Dugwell Water (Mr. Pandar Zitraji Wadai Farm, Village- Pandharkawda)	Borewell Water (Gram Panchayat Borewell near Hanuman Mandir, Village- Somegaon)	Borewell Water (Mr. Kundlik Vishwanath Urkude Farm, Village- Sonegaon)	Dugwell Water (Mr. Ravindra Pandurang Bulki Farm, Village- Yerur)
			08-08-2018	08-08-2018	08-08-2018	08-08-2018
1.	Colour, Hazen units	5/15	1.0	5.00	2.00	5.0
2.	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3.	pH value	6.5 to 8.5	7.21	7.04	8.09	8.13
4.	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5.	Turb_dity, N_U	1/5	0.34	2.83	1.53	1.21
6.	Total dissolved solids, mg/l	500/2000	1834.0	1646.0	540.0	553.0
7.	Boron (as B) mg/l	0.5/1.0	<0.02	<0.02	<0.02	<0.02
8.	Calcium (as Ca) ,mg/l	75/200	192.0	176.0	38.4	41.6
9.	Chloride (as Cl), mg/l	250/1000	384.9	242.4	34.9	34.9
10.	Copper (a∈ Cu), mg/l	0.05/1.5	>0.006	>00.00	<0.006	<0.006
11.	Fluoride (as F), mg/l	1.0/1.5	3.40	0 747	1.19	1.09
12.	Free Residual Chlorine, mg-1	0.2/1.0	<0.1	<0.1	<0.1	<0.1

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0.160	11.7	0.003	4.88	55.3	280.0	152.0	<0.03	<0.01	<0.001	<0.01	<0.005	16	2
<7.02	14.6	0 003	é 12	27.5	255.0	156.0	<5.03	<5.01	<6.001	<01	<€ 005	Not Detected	Not Detected
<0.02	34.1	0.02	8.12	143.9	300.0	580.0	<0.03	<0.01	<0.001	<0.01	<0.005	Not Detected	Not Detected
0.180	92.5	0.005	9.30	217.3	345.0	0.096	<0.03	<0.01	<0.001	<0.01	<0.005	9	1
0.3	30/100	0.1/0.3	45	200/400	200/600	300/600	5/15	0.01	0.05	0.01	0.05	Not Detected	Not Detected
Iron (as F∋), mg/l	Magnesium (as Mg), mg/l	Manganese (as Mn), mg/l	Nitrate (as NO ₃), mg/l	Sulphate [as SO ₄), mg/l	Total Alkalinity (as CaCO ₃) mg/l	Total Hardness(as CaCO ₃) mg/l	Zinc (as Z1) mg/l	Lead (as Fc) mg/l	Mercury (as Hg) mg/l	Total Ar≈nic (as As) mg/l	Total Chromium (as Cr) mg'.	Total Coliform Bacteria, (CFU /100 ml)	The mctolerant Coliform Bacterie E. Coli (CFU/100 ml)
13	14	15	16	17	18	61	20	21	22	23	24	25.	26.

Note: 1) All the above Ground Water Quality Analysis were done by MOEF Approved 3rd party M/s Earth care Pvt. Ltd. 2) Information given to local panchayat through DIL CSR team for the necessary treatment & assistance.

				Concentration	tration	
Acceptable /				Location	tion	
(IS	(IS) (1S) (2012)	Dugwell Hanuman Village-	Dugwell Water of Hanuman Mandir , Village- Wandhri	Dugwell Water (Near Jagnath Baba Mandir, Morwa)	Dugwell Water (Shiv Mandir, Village – Ghodpeth)	Dugwell Water (Grampanchyat Dugwell Near ZP Primary School, Village – Tadali)
08-08-2018	-80-80	-80-80	2018	08-08-2018	08-08-2018	08-08-2018
Colour, Hazen 5/15 1.0	5/15	1.0			1.0	5.00
Odour Agreeable Agreeable		Agreea	ble	Agreeable	Agreeab.e	Agreeable
pH value 6.5 to 8.5 7.10		7.10		7.50	7.47	7.72
Taste Agreeable Agreeable	180	Agreeab	le	Agreeable	Agrecab e	Agreeable
Turbidity, NTU 1/5 0.94		0.94		*	0.59	0.80
Total dissolved 500/2000 1952.0 solids, mg/l	500/2000	1952.0		656.0	523.0	813.0
Boron (as B) mg/l 0.5/1.0 <0.02	0.5/1.0	<0.02		<0.02	<0.02	<0.02
Calcium (as Ca) 75/200 152.0	75/200	152.0		88.0	73.6	104.0
Chloride (as Cl), 250/1000 212.4 mg/l	250/1000	212.4	323	6.68	59.9	124.9
Copper (as Cu), 0.05/1.5 0.016 mg/l		0.016		0.009	<0.006	<0.006
Fluoride (as F), 1.0/1.5 1.26 mg/l	1.0/1.5	1.26		0.617	1.11	0.816
Free Residual 0.2/1.0 Chlorine, mg/l <0.1		<0.1		<0.1	⊅.1	<0.1

13	Iron (as Fe), mg/l	0.3	0.85	0.088	<0.02	0.381
14	Magnesium (as Mg), mg/l	30/100	48.7	34.0	22.4	73.1
15	Manganese (as Mn), mg/l	0.1/0.3	0.077	0.022	<003	0.015
16	Nitrate (as NO ₃), mg/l	45	7.6	0.38	2 83	8.22
17	Sulphate (as SO ₄), mg/l	200/400	178.4	49.1	124.5	91.3
18	Total Alkalinity (as CaCO ₃) mg/l	200/600	425.0	350.0	5=0.0	275.0
19	Total Hardness (as CaCO ₃) mg/l	300/600	580.0	360.0	576.0	560.0
20	Zinc (as Zn) mg/l	5/15	0.259	0.539	<0.03	0.251
21	Lead (as Pb) mg/l	0.01	<0.01	<0.01	<0.01	<0.01
22	Mercury (as Hg) mg/l	0.05	<0.001	<0.001	<.001	<0.001
23	Total Arsenic (as As) mg/l	0.01	<0.01	<0.01	<0.01	<0.01
24	Total Chromium (as Cr) mg/l	0.05	<0.005	<0.005	<005	<0.005
25.	Total Coliform Bacteria, (CFU /100 ml)	Not Detected	Not Detected	20	9	8
26.	Thermotolerant Coliform Bacteria/E. Coli (CFU /100 ml)	Not Detected	Not Detected	4	2	8
Note:	1) All the above Grou	nd Water Quality	Note: 1) All the above Ground Water Quality Analysis were done by MOEF Approved 3 rd party M/s Earth care Pvt Ltd.	⁷ Approved 3 rd party M/s Ea	rth care Pvt _td.	

2) Information given to local panchayat through DIL CSR team for the necessary treatment & assistance.

Sr. No.	Parameters	Acceptable / Permissible Limit (IS	Ground Water from Intake Well near Wadha Village
		10500: 2012)	08-08-2018
1.	Colour, Hazen units	5/15	4.0
2.	Ödour	Agreeable	Agreeable
3.	pH value	6.5 to 8.5	7.54
4.	Taste	Agreeable	Agreeable
5.	Turbidity, NTU	1/5	2.42
6.	Total dissolved solids, mg/l	500/2000	342.0
7.	Boron (as B) mg/l	0.5/1.0	< 0.02
8.	Calcium (as Ca) ,mg/l	75/200	56.0
9.	Chloride (as Cl), mg/l	250/1000	89.9
10.	Copper (as Cu), mg/l	0.05/1.5	< 0.006
11.	Fluoride (as F), mg/l	1.0/1.5	0.347
12.	Free Residual Chlorine, mg/l	0.2/1.0	<0.1
13	Iron (as Fe), mg/l	0.3	0.020
14	Magnesium (as Mg), mg/l	30/100	9.74
15	Manganese (as Mn), mg/l	0.1/0.3	0.029
16	Nitrate (as NO3), mg/l	45	3.16
17	Sulphate (as SO4), mg/l	200/400	28.4
18	Total Alkalinity (as CaCO3) mg/l	200/600	165.0
19	Total Hardness (as CaCO3) mg/l	300/600	180.0
20	Zinc (as Zn) mg/l	5/15	0.252
21	Lead (as Pb) mg/l	0.01	< 0.01
22	Mercury (as Hg) mg/l	0.05	< 0.001
23	Total Arsenic (as As) mg/l	0.01	< 0.01
24	Total Chromium (as Cr) mg/l	0.05	< 0.005
25	Total Coliform Bacteria, (CFU /100 ml)	Shall not be Detectable	4
26	Thermotolerant Coliform Bacteria/E. Coli (CFU /100 ml)	Shall not be Detectable	3

Note: 1) All the above Ground Water Quality Analysis were done by MOEF Approved 3rd party M/s Earth care Pvt. Ltd.

²⁾ Information given to local panchayat through DIL CSR team for the necessary treatment & assistance.

ENCLOSURE - 3

STACK EMISSION QUALITY STATUS

Sr.	Parameters				Conce	Concentration			
1041		Apr	April-18	May	May-18	Jun	June-18	Jul	July-18
		TPP Unit I	TPP Unit II	TPP Unit I	TPP Unit II	TPP Unit I	TPP Unit II	TPP Unit I	TPP Unit II
ij	Total Particulate Matter, mg/Nm ³	06.90	28.3	12.9	32.5	18.3	39.2	11.6	21.3
2.	Sulphur Dioxide as SO ₂ , mg/ Nm ³	1258.5	1247.9	1146.8	1142.4	1399.7	1123.6	1224.9	1101.5
3.	Sulphur Dioxide as SO ₂ , Kg/Hr	1189.2	1536.9	931.0	1350.4	1378.8	1469.5	1.91.1	1177.2
4.	Oxides of Nitrogen as NO ₂ , mg/Nm ³	557.2	338.8	678.6	189.1	799.4	114.7	358.5	182.4
5.	Oxides of Nitrogen as NO ₂ , ppm	296.2	180.05	360.7	100.5	424.9	6.09	190.5	6.96
.9	Mercury as Hg, mg/Nm ³	0.014	0.012	0.01	0.011	0.012	0.01	0.012	0.014
Note	Note: All the above Ground Water Quality Analysis were done by MOEF Approved 3rd party M/s Earth care Pvt. Ltd.	uality Analy	sis were done	by MOEF	Approved 3 rd	party M/s Ea	rth care Pvt. I	.td.	

Sr.	Parameters				Concentration	п		
2.			7	August-2018	8		September-2018	er-2018
		D.G. Set No.1 1500 KVA (Left Bank)	D.G. Set No.2 150C KVA (Lef: Bank)	D.G. Set No.1 1500 KVA Right Bank	D.G. Set No.2 1500 KVA (Right Bank)	TPP Unit- II	TPP Unit I	TPP Unit II
ı.	Total Particulate Matter, mg/Nm ³	43.1	46.5	45.7	47.7	36.5	30.4	31.9
2.	Sulphur Dioxide as SO ₂ , mg/ Nm ³	210.6	195.0	174.2	225.1	1120.5	1075.0	1146.0
3.	Sulphur Dioxide as SO ₂ , Kg/Hr	0.43	0.40	0.37	0.48	1235.4	821.9	1405.5
4.	Oxides of Nitrogen as NO ₂ , mg/Nm ³	184.3	178.7	167.9	216.5	173.2	267.9	238.7
5.	Oxides of Nitrogen as NO ₂ , ppm	67.6	94.5	89.3	115.1	92.1	142.4	126.9
9.	Mercury as Hg, mg/Nm ³	1	1	1	1	0.012	0.010	0.011

Note: All the above Ground Water Quality Analysis were Jone by MGEF Approved 3rd party M/s Earth care Pvt. Ltd.

ENCLOSURE - 4

EFFLUENT QUALITY STATUS

		Effluent Quality	Effluent Quality Monitoring report - APRIL.18 to SEPTEMBER.18	rt - APRIL	18 to SEPT	EMBER.18			
Sr. No.	Parameter	NORMS	8	APR.18	MAY.18	JUNE.18	JULY.18	AUG.18	SEPT.18
1.	ЬН	5.5 to 9.0		7.48	7.84	8.36	7.30	7.87	7.83
7,	Total Supended Solid	100 mg/l		12.8	16.0	8.80	14.0	8.0	6.0
છં	Oil & Grease	10 mg/l	ETP Discharge	₹'0>	<0.2	<0.2	<0.2	7.87	<0.2
4.	Biolochemical Oxygen Demand (3 days/27°C)	30 mg/l		₹.0>	<0.2	<0.2	3.60	4.10	3.7
'n	Chemical Oxgen demand	250 mg/l		62.5	48.0	56.0	0.09	0.89	56.0
.9	Total Dissolved Solid	2100 mg/l		1654.0	1640.0	1317.0	1602.0	1558.0	889.0
Note: The l	Note: The Effluent Quality monitoring done MOEF approved 3rd party M/s Earth care Pvt. Ltd.	g done MOEF a	pproved 3rd par	ty M/s Ear	th care Pvt.	Ltd.			

		Effluen	Effluent Quality Monitoring report -APRIL.18 to SEPTEMBER.18	oring r	eport -	APRII	L.18 to	SEPTI	EMBER.	18			
Sl.No.	Parameter	Norms		API	APR.18	MAY.18	7.18	NOL	JUNE.18	JULY.18	AUG.18	SEPT.18	2.18
			,	unit I	unit - II	unit unit -I -II	unit - II	unit - I	unit - II	unit - []	unit - II	unit -	unit -
-	PH	5.5 - 9.0	Condensor cooling Water	7.42	8.80 7.56 7.50 7.92	7.56	7.50	7.92	7.84	7.80	8.05	7.86	7.74
7	Temp.	<5°C higher than Intake water		4.0	4.0	3.0	3.0	3.0	3.0	4.0	2.0	3.0	2.0
က	Free Available Chlorine	0.5 mg/l		<0.1	<0.1 <0.1 0.1 0.1 <0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Note:		Effluent Quality monitoring done by MoEF approved 3rd party M/s Earth care Pvt. Ltd.	y MoEF approv	ed 3rd	party	M/s E	arth ca	re Pvt.	Ltd.				

	Parameter	Norms		API	APR.18	MAY.18	(.18	NDC	JUNE.18	JULY.18	AUG.18	SEP	SEPT.18
				unit - I	unit -II	unit - I	unit - II	unit -I	unit -II	unit - II	unit - II	unit - I	umit - II
1 T	Total Suspended solid	100 mg/l	Boiler	9.20	00.9	8.0	14.0	10.0	0.9	8.0	8.0	4.0	6.0
2 0	Oil & Grease	10 mg/l	Blow Down	<0.2	<0.2	0.20	0.20	<0.2	<0.2	<0.2	2:0>	<0.2	<0.2
3 C	Copper(Total)	1 mg/l		0.14	90.0	0.14 0.06 0.051	0.04	0.04	0.035	0.046	0.03	90.0	0.04
4 In	Iron(Total),mg/l	1 mg/l	- 1 =	0.18	0.11	0.18 0.11 0.125	0.07	0.11 0.084	0.084	0.10	0.11	0.12	0.10

	Effluent Quality Monitoring-Cooling Tower Blow down report From APRIL.18 to SEPTEMBER.18	Monitorin	g-Cooling To	wer B	ow do	wn re	port Fr	om AP	RIL.18	to SEPTEN	IBER.18		
SI.No.	Parameter	Norms		AP.	APR.18	MA	MAY.18	JUNE.18	E.18	JULY.18	AUG.18	SEPT.18	.18
				unit -	unit -=	unit -	unit - II	unit - l	unit - II	unit - II	unit - II	- unit	- mit
1	Free Available chlorine	0.5 mg/l	Cooling tower blow	<0.1	<0.1	0.10	0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
2	Zinc	1 mg/l	down	0.10	0.12	0.162	0.10 0.12 0.162 0.171 0.144	0.144	0.158	0.48	0.39	0.15	0.34
3	Chromium (Total)	0.2 mg/l		90:0	0.07	0.005	0.005 0.021	0.016	0.018	0 025	0.03	0.02	0.03
4	Phosphate	5 mg/l		09 0	0.55	06'0	96.0	0.93	1.04	1.67	1.94	1.94	2.12
Note:	The Effluent Quality Monitoring done by MoEF approved 3rd Party M/s Earth care Pvt. Ltd.	itoring don	e by MoEF appı	roved 3	Ird Part	y M/s E	arth car	e Pvt. Li	j.				

	Effluent Qua	lity Mo	nitoring-	Ash Pond re	sport From	Effluent Quality Monitoring-Ash Pond report From APRIL.18 to SEPTEMBER.18	SEPTEMBE	R.18	
SI.No.	Parameter	unit		APR.18	MAY.18	JUNE.18	JULY.18	AUG.18	SEPT.18
н	Н	ı		7.99	7.56	7.65	8.91	8.93	8.67
2	Oil & grease	l/gm		<0.2	0.20	<0.2	<0.2	<0.2	<0.2
က	TSS	l/gm	Ash	6.40	58.0	10.0	18.0	8.0	10.0
4	Lead (As Pb)	l/gm	Pond	0.12	0.072	0.084	0.10	0.12	0.14
Ŋ	Mercury (As Hg)	l/gm		0.008	600.0	0.008	0.012	0.014	0.021
9	Total Chromium (As Cr)	l/gm		0.09	0.052	0.056	60:0	0.11	0.10
7	Total Arsenic (As As)	l/gm		0.05	0.031	0.034	90:0	0.08	90.0
Note:	Effluent Quality Monitoring done by MoEF approved 3rd Party M/s Earth care Pvt. Ltd.	ing don	e by MoEF	approved 3r	d Party M/s I	earth care Pvt.	Ltd.		

	Effluent	Quality Mor	nitoring	y-STP Trea	ated efflue	nt report	From APRI	Effluent Quality Monitoring-STP Treated effluent report From APRIL.18 to SEPTEMBER.18	FEMBER.18	
SI.No.	Parameter	Norms	Unit		APR.18	MAY.18	APR.18 MAY.18 JUNE.18	JULY.18	AUG.18	SEPT.18
1	Н	5.5 to 9.0		STP	6.97	7.16	7.22	7.49	7.56	7.45
2	Total Suspended Solids (TSS)	100	mg/L	Effluent	6.00	6.0	10.0	3.60	4.00	12.0
ю	ВОБ	100	mg/L		5.40	8.0	12.0	4.00	5.60	7.20
Note:	Effluent Quality Monitoring done by MoEF approved 3rd Party M/s Earth care Pvt. Ltd.	Monitoring d	one by I	MoEF appro	ved 3rd Par	ty M/s Eart	h care Pvt. L	ĘĠ.		

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ENCLOSURE - 5

AMBIENT NOISE QUALITY STATUS

	Location		AAQMS Cabir-01 (Near VIP Gate)	AAQMS Cabir-01 (Near VIP Gate)	AAQMS (Near ET Por	AAQMS Cabin-02 (Near ETP & RWH Pond)	AAQMS Cabin-03 (Near Old Switch Yard)	AAQMS Cabin-03 (Near Old Switch Yard)
Parameters	Month	Reading	During Dey Time	During Night Time	During Day Time	During Night Time	During Day Time	During Night Time
	April-2018	Leq	603	50.6	614	53.9	63.6	55.1
	May-2018	Leq	59.1	50.4	65 7	57.5	58.4	49.5
Noise Level	June-2018	Leq	0.09	45.8	64 2	54.3	59.0	49.3
in dB (A)	July-2018	Leq	62.2	54.4	63.5	55.6	60.2	49.9
	August-2018	Leq	66.2	55.0	64 6	54.1	65.5	54.1
	September- 2018	bəT	62.9	53.8	65 1	51.8	63.8	50.1
Norms		Industrial Area	7.5	CL .	75	70	75	70
Note: All the	Note: All the above Ambient Noise Quality Analysis were done by MOEF Approved 3 rd party M/s Earth care Pvt. Ltd.	se Quality Ana	alysis were d	one by MOE	F Approved	3rd party M/s	s Earth care	Pvt. Ltd.

ENCLOSURE – 6 AMBIENT AIR QUALITY STATUS

1.0 Location: - AAQMS Cabin-01 (Near VIP Gate)

Sr.	Paramatars	7	1,000			Concentration	ration		
No.	r al ameter 3	NOTIES	IWA	April-2[18	May-2018	June-2018	July-2018	Aug-2018	Sept-2018
1.	Sulphur Dioxide (SO ₂) μg/m ³	80	Annual	7.63	7.70	6.51	6.19	8.10	6.02
2.	Nitrogen Dioxide (NO ₂) µg/m ³	80	Annual	21.5	21.5	14.9	9.30	12.1	11.8
3.	Particulate Matter of size less than $10 \ \mu m$ (PM_{10}) $\mu g/m^3$	100	Annual	48.9	57.6	6.19	49.4	49.6	45.7
4.	Particulate Matter of size less than 2.5 µm (PM _{2.5})µg/m ³	09	Annual	24.5	25.2	27.7	21.8	20.9	19.1
5.	Ozone (O ₃) (µg/m³)	100	8 Hrs	20.9	15.4	12.1	12.9	12.3	14.6
6.	Lead (Pb) (μg/m³)	0.5	Annual	0.25	0.18	0.032	0.04	0.05	0.03
7.	Carbon Monoxide (CO) (mg/m³)	2	8 Hrs	0.62	6.4	0.2	0.14	0.14	0.20
%	Amr.onia (NH ₃) (μg/m ³)	100	Annual	21.9	16.2	14.4	11.8	10.5	7.91
9.	Benzene (C ₆ H ₆) (μg/m³)	5	Annual	3.21	3.21	3.21	3.15	3.19	3.21
10.	Benzo(a) Pyrene (BaP) (ng/m³)		Annual	0.51	0.63	0.55	0.35	0.32	0.58
11.	Arsənic (As) (ng/m³)	9	Annual	2.54	2.45	2.57	2.34	2.23	2.60
12.	Nickel (Ni) (ng/m³)	20	Annual	13.8	10.2	79.67	7.67	7.08	8.21
Note	Note: All the above Ambient Air Quality Analysis were done by MOEF Approved 3rd	Analysis	were done	by MOEF Ap	proved 3 rd par	party M/s Earth care Pvt. Ltd.	care Pvt. Ltc	ند ا	

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2.0 Location: - AAQMS Cabin-02 (Near ETP and RWH pond)

Sr.	Dougmotone	, i	1			Concentration	ation		
No.	i ai allicici S	NOTIES	IWA	April-2018	May-2018	June-2018	July-2018	Aug-2018	Sept-2018
1:	Sulphur Dioxide (SO_2) $\mu g/m^3$	80	Annual	7.12	6.24	8.37	8.02	8.06	6.58
2.	Nitrogen Dioxide (NO ₂) μg/m ³	80	Annual	19.9	19.9	12.2	12.6	11.23	12.1
3.	Particulate Matter of size less than $10 \mu m$ (PM_{10}) $\mu g/m^3$	100	Annual	51.6	48.5	63.7	46.1	47.6	48.6
4.	Particulate Matter of size less than 2.5 µm (PM _{2.5})µg/m ³	09	Annual	27.8	22.3	29.9	24.6	21.1	21.5
5.	Ozone (O ₃) (µg/m³)	100	8 Hrs	23.4	12.8	15.0	10.4	10.6	15.1
9.	Lead (Pb) (µg/m³)	0.5	Annual	0.32	0.12	90.0	0.031	90.0	0.03
7.	Carbon Monoxide (CO) (mg/m³)	2	8 Hrs	0.58	0.3	870	0.16	0.18	0.26
∞.	Ammonia (NH ₃) (μg/m ³)	100	Annual	21.4	13.7	12.8	8.50	8.31	96.9
9.	Benzene (C ₆ H ₆) (μg/m ³)	5	Annual	3.25	3.24	3.26	3.10	3.24	3.29
10.	Benzo(a) Pyrene (BaP) (ng/m³)	1	Annual	0.53	0.53	0.61	0.36	0.40	0.58
11.	Arsenic (As) (ng/m³)	9	Annual	2.56	2.50	2.70	2.07	2.66	2.43
12.	Nickel (Ni) (ng/m³)	20	Annual	14.9	8.93	8.88	7.89	8.20	9.28
Not	Note: All the above Ambient Air Quality Analysis were done by MOEF Approved 3 rd party M/s Earth care Pvt. Ltd.	Analysis	were done	by MOEF Ap	proved 3 rd pa	rty M/s Earth	care Pvt. Ltc		

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3.0 Location: - AAQMS Cabin-03 (Near Old Switchyard)

Sr.	Parameters	Norms	TWA			Concentration	ration		
No.		SIII IONT	Y W I	April-2018	May-2018	June-2(18	July-2018	Aug-2018	Sept-2018
1.	Sulphur Dioxide (SO ₂) μg/m ³	80	Annual	7.99	6.83	7.97	7.71	7.54	6.35
2.	Nitrogen Dioxide (NO ₂) µg/m ³	80	Annual	20.7	16.6	10.4	10.4	11.4	12.9
3.	Particulate Matter of size less than $10 \mu m$ (PM_{10}) $\mu g/m^3$	100	Annual	49.5	47.2	56.5	39.6	39.7	48.5
4.	Particulate Matter of size less than 2.5 µm (PM _{2.5})µg/m ³	09	Annual	29.2	25.4	27.5	16.7	16.5	24.0
5.	Ozone (O ₃) (µg/m ³)	100	8 Hrs	21.6	14.9	14.5	8.20	8.47	14.7
.9	Lead (Pb) (μg/m³)	0.5	Annual	0.31	0.12	0.05	0.02	0.03	0.05
7.	Carbon Monoxide (CO) (mg/m³)	2	8 Hrs	0.65	0.26	0.24	0.12	0.12	0.26
8.	Ammonia (NH ₃) (μg/m ³)	100	Annual	25.7	14.9	60.6	6.50	6.74	7.85
9.	Benzene (C ₆ H ₆) (µg/m ³)	5	Annual	3.35	3.21	3.26	2.95	2.95	2.88
10.	Benzo(a) Pyrene (BaP) (ng/m³)	1	Annual	0.49	0.53	0.59	0.35	0.27	0.43
11.	Arsenic (As) (ng/m³)	9	Annual	2.48	2.48	2.63	1.83	2.30	2.52
12.	Nickel (Ni) (ng/m³)	20	Annual	14.9	9.52	8.60	7.15	6.92	7.37
Note	Note: All the above Ambient Air Quality Analysis were	Analysis		done by MOEF Approved 3 rd party M/s Earth care Pvt. Ltd.	proved 3 rd pai	rty M/s Earth	care Pvt. Ltc		

4.0 Location: - Mr. Maroti Shankar Roge house Village-Sonegaon

Sr.	Daramotare	Norma	TWA			Concentration	ration		
No.	1 alametels	NOTHIS	Iwa	April-2018	May-2018	June-2018	July-2018	Aug-2018	Sept-2018
1.	Su phur Dioxide (SO ₂) μg/m ³	80	Annual	6.58	8.14	7.76	45.5	7.16	68.9
2.	Nitrogen Dioxide (NO ₂) µg/m ³	80	Annual	20.1	21.2	15.7	12.5	12.1	11.7
3.	Particulate Matter of size less than $10 \mu m$ (PM_{10}) $\mu g/m^3$	100	Annual	51.4	46.6	59.1	55.4	46.0	47.4
4.	Particulate Matter of size less than 2.5 µm (PM _{2.5})µg/m ³	09	Annual	16.4	14.4	28.3	24.5	21.3	21.0
5.	Ozone (0 ₃) (µg/m ³)	100	8 Hrs	20.0	10.2	5.60	92.3	6.54	12.3
.9	Lead (Pb) (μg/m³)	0.5	Annual	0.20	80.0	0.032	C.02	0.029	0.02
7.	Carbon Monoxide (CO) (mg/m³)	2	8 Hrs	0.31	0.18	0.15	C.:0	0.10	0.14
8.	Ammonia (NH ₃) (μg/m ³)	100	Annual	20.3	14.3	12.2	07.3	8.31	6.40
9.	Benzene (C ₆ H ₆) (µg/m³)	S	Annual	3.36	2.86	3.24	36.5	2.75	2.56
10.	Benzo(a) Pyrene (BaP) (ng/m³)	-	Annual	0.51	0.51	0.54	(.32	0.34	0.32
11.	Arsenic (As) (ng/m³)	9	Annual	2.59	2.16	2.60	1.88	1.87	1.74
12.	Nickel (Ni) (ng/m³)	20	Annual	7.78	8.21	8.77	52.7	7.49	7.48
Note	Note: All the above Ambient Air Quality Analysis were done by MOEF Approved 3 rd party M/s Earth care Pvt. Ltd.	Analysis	were done	by MOEF Ap	proved 3rd pa	rty M/s Earth	care Pvt. Lt	-	

5.0 Location: - Terrace of Shri Bapurao Pimpalkar House, Village - Wandhri

Sr.	Parameters	Norms	TWA			Concentration	ration		
No.		TAGINIS	EW1	April-2018	May-2018	June-2018	July-2018	Aug-2018	Sept-2018
1.	Sulphur Dioxide (SO ₂) μg/m ³	80	Annual	6.79	8.35	7.89	6.70	6.71	6.56
5.	Nitrogen Dioxide (NO ₂) µg/m ³	80	Annual	51.4	24.3	16.2	11.8	11.2	11.5
3.	Particulate Matter of size less than $10 \mu m$ (PM_{10}) $\mu g/m^3$	100	Annual	£ 65	41.7	58.6	33.8	44.4	41.1
4.	Particulate Matter of size less than 2.5 µm (PM _{2.5})µg/m ³	09	Annual	15.	18.9	25.0	14.7	15.8	16.6
5.	Ozone (O ₃) (µg/m³)	100	8 Hrs	31:	11.8	5.90	60.9	6.37	12.4
9.	Lead (Pb) (μg/m³)	0.5	Annual	82.0	0.12	0.032	0.02	0.04	0.03
7.	Carbon Monoxide (CO) (mg/m³)	2	8 Hrs	93.0	0.21	0.18	0.12	0.14	0.18
8.	Ammonia (NH ₃) (μg/m ³)	100	Annual	513	14.9	13.8	7.50	8.31	8.57
9.	Benzene (C ₆ H ₆) (μg/m ³)	5	Annual	1.56	3.25	326	2.16	2.59	2.70
10.	Benzo(a) Pyrene (BaP) (ng/m³)		Annual	.9.0	0.61	0.54	0.24	0:30	0.41
11.	Arsenic (As) (ng/m³)	9	Annual	3:6	2.74	2.66	1.53	2.03	1.76
12.	Nickel (Ni) (ng/m³)	20	Annual	€.40	9.04	8.88	6.15	7.92	7.62
Note	Note: All the above Ambient Air Quality Analysis were done by MOEF Approved 3 rd party M/s Earth care Pvt. Ltd.	Analysis	were done	by MOEF Ap	proved 3 rd par	ty M/s Earth	care Pvt. Ltc		

Page 39 of 52

6.0 Location: - Terrace of Gram Panchayat, Village- Yerur

Sr.	Parameters	Norme	TWA			Concentration	cation		
No.	r ar antelers	SIII IONI	F M I	April-2018	May-2018	June-2018	July-2018	Aug-2018	Sept-2018
Γ.	Sulphur Dioxide (SO ₂) μg/m ³	80	Annual	6.49	9.47	8.74	8.62	8.41	98.9
2.	Nitrogen Dioxide (NO ₂) µg/m ³	08	Annual	20.8	23.4	13.5	13.3	12.9	13.3
3.	Particulate Matter of size less than $10 \mu m$ (PM_{10}) $\mu g/m^3$	100	Annual	45.5	44.9	57.4	38.9	39.1	51.5
4.	Particulate Matter of size less than 2.5 µm (PM _{2.5})µg/m ³	09	Annual	16.6	15.5	26.7	17.9	16.7	23.8
5.	Ozone (O ₃) (μg/m ³)	100	8 Hrs	20.3	11.5	4.70	4.74	5.12	14.1
6.	Lead (Pb) (μg/m³)	0.5	Annual	0.22	0.1	0.04	0.01	0.03	0.03
7.	Carbon Monoxide (CO) (mg/m³)	2	8 Hrs	0.38	0.15	0.16	0.11	0.1	0.19
∞.	Ammonia (NH ₃) (μg/m ³)	100	Annual	21.8	14.3	11.2	7.30	8.31	08.9
9.	Benzene (C ₆ H ₆) (μg/m ³)	5	Annual	3.33	3.34	3.26	2.84	2.42	2.68
10.	Benzo(a) Pyrene (BaP) (ng/m ³)		Annual	0.65	0.57	0.53	0.33	0.25	0.35
Ξ.	Arsenic (As) (ng/m³)	9	Annual	2.91	2.74	2.76	1.47	1.88	1.98
12.	Nickel (Ni) (ng/m³)	20	Annual	8.16	9.22	8.84	6.48	7.06	7.36
Note	Note: All the above Ambient Air Quality Analysis were done by MOEF Approved 3 rd party M/s Earth care Pvt. Ltd.	Analysis	were done	by MOEF Ap	proved 3 rd pa	rty M/s Earth	care Pvt. Ltc		

Enclosure-7

DHARIWAL INFRASTRUCTURE LIMITED,

Tadali, Dist. Chandrapur.

6 Monthly (April 18 to Sept 18)

Consolidated Report on

Corporate Social Responsibility

Year 2018 to 2019

Broad CSR Initiatives

- 1) Swachh Bharat Abhiyan (Health, Sanitation & Drinking Water)
- 2) Digital Village Program
- 3) Skill Development
- 4) SHG Promotion and adolescent girls program
- 5) Education promotion
- 6) Agricultural / Irrigation Development
- 7) Village Infrastructure Development

Swachh Bharat Abhiyan Program

Objectives

- To promote safe sanitation & clean environment as way of life in rural areas
- To incentivize Panchayat Raj Institutions (PRIs) to make the villagers Open Defecation Free(OFD) and to promote Solid and Liquid Waste Management(SLWM)
- To sustain the initiative of clean environment.
- To encourage organization to play a catalytic role in social mobilization in the implementation of Swachh Bharat Abhiyan

The Progress made so far under Swachh Bharat Abhiyan

- Organized Rally, Pathanitaka, Gram Swachhta Abhiyan, Home to Home mobilization, Exposure visit, Swachh Bharat Abhiyan Workshop, Gramsabha & concern dept Meeting for Sanitation.
- Meetings held with Sarpanch and villagers for mobilizing participation.
- Home visits conducted to mobilize people's participation and contribution to construction of toilets along with GP secretary & GP Members.
- DIL got felicitation from state home minister.
- Meeting with District Magistrate & CEO & BDO for sanitation.

Digital Village Program

Objective

- Selected Pandharkawda for the digital village program
- 100% coverage with the inclusion of cashless transactions, usage of online wallets and provision of free Wi-Fi.
- Mobile Banking, SMS Banking, Missed Call Alerts, Internet Banking, Debit Card etc.
 would be enabled for all households in the villages
- Villagers would be issued with RuPay debit card and they would be covered under RuPay Insurance Scheme
- Reduction of gap between rural and urban India, by bringing financially excluded people under the fold of banking.
- · Based on the success of this initiative, DIL will plan for scaling up to more villages

Activity

- 100% Bank account opened for villagers in Pandharkawda Village.
- 90 % villagers have their Adhar linked with bank acount.
- 158 villagers were installed with cash less app for financial transaction such as BHIM ,PYTM ,MAHABANK, RUPAY, PHON PE etc.
- Organized 2 Cashless training for villagers.
- Survey
- Conducting classes for ZP school students.
- Conducting classes for women.
- Started Government to Customer service in Pandharkawda (G to C)

Output

- 158 villagers are using apps for cashless transaction.
- 90% Villagers have paid electricity bill through online payment.
- 70 % villagers are using ATM.
- Villagers are getting certificate(Income certificate and other govt certi.) from the Centre.
- Mr Sudhirbhau Mungantiwar (State Finance Minister) has visited and inaugurated digital village.

Education Program

Objective

Ensure all students in classes $1^{st} - 8^{th}$ are able to perform at least 50% score in their class exams.

Activity

- Started 19 L2R, R2L classes in 8 villages 322 students have enrolled.
- 8 libraries are running successfully from last three years, 750 children have enrolled
- Organized 1 training for staff and Balsakhi.
- · Organized Pustakwala program in 8 villages .
- Organized the drawing competition, GK exam and various type of program through the Ganesh Mandal.

Agriculture Program

Objective

- Farmers clubs in Shengaon, Pandharkawa, Wadha, Dhanora, Yerur & Sonegaon are able to access all supports from NABARD & Agriculture department
- Develop the Intake area into a Agriculture Demostration Farm for Farmers Training.

Activity

- Conducted five training for the farmers club such as fertilizer, pesticides, seeds, soil testing, cotton etc
- Conducted exposure visit in Warora.
- Maintenance of 150 Oranges plants in Intake well, Wadha. Planted 105 orange ,10 guava , 250 Nilgiri , marigold, lady finger , bins, fenugreek, coriander, brindle ,chilies and water melon and mangoes.
- Preparation of land for farming.

Self Help Group Program

Objective

- SHG members practice savings and credit
- SHGs have Bank linkages and have their Bank Accounts.
- SHG will start small business.

Activity

- Meeting with SHG group.
- 6 New SHG group formed
- 8 youth meeting have been conducted in villages.

Adolescent Girls Program

Objective

- Adolescent Girls of class VIII to XII in one school are access to safe and hygienic sanitary napkins.
- To create awareness of adolescence girls during their period..

Activity

- Organized 4 HB camp in four villages.
- · Conducted awareness meeting for adolescent girls in 8 villages.

Skill Development Program

- Mobilization meeting for automobile training
- 10 students have selected for automobile training.

Village Infrastructure Development

- Renovation of ICCU Crist Hospital. .
- Help for the Durga Pujan & Ganpati Pujan.

Expenditure

- Total Expenditure for the period from April 2018 to Sept 2018 for all CSR activities was Rs. 16.41 Lakhs.
- Total Expenditure for all CSR Activities till date was Rs. 287.5 Lakhs.

ENCLOSURE -8

Monitoring the Implementation of Environmental Safeguards Ministry of Environment & Forests Regional Office (W), Nagpur

		Monitorin	g R	Report				
		PAR						
		DATAS	H	EET				
Ref	No.	DIL/HSE/F-09/18-19		Date: 28/11/2018				
1.		oject type: River-valley/Mining /	:	Thermal Power Plant				
2		ame of the project	•	: M/s. Dhariwal Infrastructure Ltd. Plot No. C-6, C-7 & C-8, Tadali Industrial Area, MIDC, Village – Tadali, Dist Chandrapur				
3.	Clo	earance letter (s)/OM no and date	:	J-13011/10/2009-IA. II (T) dated 04 -12- 2009				
4.	Lo	cation						
	a. District (s)			Chandrapur				
	b.	State(s)	:	Maharashtra				
	¢,	Latitude/Longitude	:	Latitude : 20°00'30" to 20°01'20" North Longitude 79°11'50" to 79°12'35" East				
5.	Address for correspondence							
		Address of Concerned Project Chief Engineer (with pin code & telephone/telex/fax numbers		Shri. Rabi Chowdhury, Managing Director M/s. Dhariwal Infrastructure Ltd. Plot No. C-6, C-7 & C-8, Tadali Industrial Area, MIDC, Village – Tadali, Dist. – Chandrapur, PIN - 442406 Phone No. 07172-645911-13 Fax No 07172-237992				
	b.	Address of Executive Project Engineer/Manager (with pin code/fax numbers)	•	Shri. Goutam Ghoshal Vice President M/s. Dhariwal Infrastructure Ltd. Plot No. C-6, C-7 & C-8, Tadali Industrial Area, MIDC, Village – Tadali, Dist. – Chandrapur PIN - 442406 Phone No. 07172-645911-13 Fax No 07172-237992				
6	Sal	ient features						
	a.	of the project	:	Please refer Annexure-1				
	b.	of the environmental management plans	:					
1.	Bre	ak up of the project area						
	a.	submergence area : forest & non-forest	:	Not applicable since the Unit is set up in MIDC Industrial Area				

	b.	Others	:	Total project ar Area earmarke development is: 1	Maria de Maria de Caractera de
with enumerate houses/dwelling land only, be agricultural laborers/artisan these figures and systematic provisional figures.		uses/dwelling units only agricultural ad only, both dwelling units &		Not applicable sin MIDC Industrial	ce the Unit is set up in Area
9.	Fir	nancial details			
	a.	Project cost as originally planned and subsequent revised estimates and the year of price reference	:	Rs. 3054 Crores. To incurred as on date	originally planned was The gross capital e is Rs. 3888.86 Crores.
	b.	Allocation made for environmental management plans with item wise and year wise break-up	R	s. 314.5 Lakhs.	
Sr.N	No.	Particular	19,3930	Capital Cost neurred for April 018 to September 2018 (Rs. In Lakhs)	Recurring Cost Incurred for April 2018 to September 2018 (Rs. In Lakhs)
	1	Air Pollution Control		142.67	117.23
	2	Water Pollution Control		10.16	11.88
	3	Noise Pollution Control			
	4	Environment Monitoring and Management			9.27
	5	Reclamation borrow/mined area			
	6	Occupational Health			0.07
	7	Green Belt and Land Environment			22.30
	8	Others (Pl. Specify) Socio-economic			0.9
		Environment			
		Total		152.83	161.65
	c.	Benefit cost ratio/Internal rate of Return and the year of assessment	: The construction work is started in the financial year 2010-11 and Plant is commissioned in two phases in Octobe 2013 and July 2014.		11 and Plant is to phases in October
	d.	Whether (c) includes the cost of environmental management as shown in the above	:	Yes	
	e	Actual expenditure incurred on the project so far	:	Rs. 3888.86 Crores	
	f.	Actual expenditure incurred on the environmental management plans from April 2018 to September 2018.		Recurring Cost : R	As. 152.83 Lakhs As. 161.65 Lakhs Rs. 314.5 Lakhs

			DU			
10	For	est land requirement				
	a.	The status of approval for diversion of forest land for non-forestry use	:	Not applicable, since the Unit is located in MIDC Industrial Area, Tadali, Chandrapur.		
	b. The status of clearing felling			Not applicable		
			:			
	c.	The status of compensatory afforestation, if any	:	Not applicable		
	d.	Comments on the viability & sustainability of compensatory afforestation programme in the light actual field experience so far	:	Not applicable		
11	area rese	status of clear felling in non-forest is (such as submergence area of rvoir, approach roads), if any with ntitative information	:	Not applicable		
12	Stat	us of construction				
	a.	Date of commencement (Actual and/or planned)	:	June 2010		
	b.	Date of completion (Actual and/of planned)	:	July 2014		
13	Reasons for the delay if the project is yet to start		:	Work is completed.		
14	Date	es of site visits				
	a	The dates on which the project was monitored by the Regional Office on previous occasions, if any.	;	Nil		
	b.	Date of site visit for this monitoring report.	:			
15	Details of correspondence with project authorities for obtaining action plans/information on status of compliance to safeguards other than the routine letters for logistic support for site visits. (The first monitoring report may contain the details of all the letters issued so far, but the later reports may cover only the letters issued subsequently.)			DIL is regularly submitting Half Yearly Compliance Reports since April 2010.		

For DHARIWAL INFRASTRUCTURE LTD.

(Biplab Kanti Kar) Head O & M

ANNEXURE-1

SALIENT FEATURES

1.0 Salient Features of the Project

- ❖ It is a coal based Thermal Power Plant (TPP) of capacity @ 2 x 300 MW. The requirement of coal is 3.0 Million TPA and full fledged coal handling plant is installed in the Unit.
- Auxiliary fuel, LDO is stored in 2 X 1000 m³ storage capacity tank.
- ❖ Total fresh water requirement is 19.272 Million KL Per Annum and it is fulfilled from Wardha River.
- Rail infrastructure & Road network is adequately available.
- ❖ The 400 KV Sub-Station Chandrapur is located at 7.0 km towards East direction and connected for power evacuation.
- The ash handling system comprising dry extraction by pneumatic conveying system has been provided, Ash bund of adequate capacity is also provided. Ash disposal as per Fly Ash Notification Nov. 2008 is in progress.
- The operation of 2 x 300 MW TPP is started with all pollution control systems.

2.0 Salient Features of Environment Management Plan

The adequate pollution control measures with latest pollution control system are installed in the Plant.

The EMP has been prepared to further mitigate the impacts, if any, on environment due to the Unit and to ensure that the study area will be well conserved during construction and operation phase of the TPP.

2.1.1 Construction Phase

Constuction Phase is over in year 2014 and Plant (both Unit-1 and Unit-2) was commissioned on October 2013 and June 2014 respectively.

2.1.2 Operation Phase

2.1.2.1 Land Environment

The EMP for land environment is to scientifically utilize the capabilities of different plant species for attenuation of particulate and noise. Further, afforestation programme & green belt development programme is in progress on priority.

- The tree species selected for plantation are as per the CPCB Guidelines.
- Tree species are selected considering tolerance to specific conditions or alternatively wide adaptability to eco-physiological conditions.
- Fly ash is directly supplied to cement plants.
- Bottom ash is disposed at ash bund.
- Abandoned quarries/mines in the region will be studied for filling and leveling by bed ash as well as for green belt development.
- Generation of used/spent oil in insignificant and its disposal will be carried out scientifically.

21.2.2 Air Environment

Generation of ambient air quality data helps to develop sustainable environment. Following measures are carried out for further environmental improvements:

- A system is developed for the regular check up and efficient maintenance of all the pollution control arrangements.
- Truck/wagon unloading operations are regularly supervised to reduce fugitive emissions.
- A green belt around the plant site and plantation within the plant premises especially around the possible sources of fugitive emissions is carried out
- Water sprinkling on roads is carried out to prevent dust pollution.
- Water Sprinklers are provided in Coal yard and sprinkling is done to prevent dust pollution.

2.1.2.3 Noise Environment

- The operator's cabins and control rooms are properly acoustically insulated with special doors and observation windows.
- Noise attenuating devices like ear plug and ear muffs are provided to protect the workers from high noise levels.
- * Walls and ceilings are lined with sound absorbing materials, wherever required.
- The vent valves are equipped with silencers.

2.1.2.1 Water Environment

- The water conservation scheme is implemented in different sections/ operations so as to reduce water requirements.
- Regular monitoring and quantification of water requirement at various operations/sections is carried out.
- Rain water harvesting is carried out.
- ❖ All the pipeline/taps leakage is promptly attended to.

2.1.2.5 Socio-Economic Environment

Environmental Management Plan (EMP) is prepared considering the impacts which have manifested as a result of the ongoing activities i.e. existing socio-economic profile in the study area. The details are given below

- Though there is limited direct employment required in the TPP, still the local people are given opportunities for indirect jobs and business in the project.
- All workers, labours & staff are provided with personal protective appliances (PPEs') and safety gadgets.
- Social welfare programmes with reference to health, education, water conservation, income generation are organized in the nearby villages.
- ❖ For all the social welfare activities to be undertaken by the authorities, collaboration and consultation is sought with the local administration, grampanchayat, block development office, NGOs etc. for better co-ordination.
- * Rest rooms, canteen, drinking water etc near the work place are provided for contract labours as well as transporters.

ENCLOSURE -9



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

Environmental Audit Report for the financial Year ending the 31st March 2018

Unique Application Number

MPCB-ENVIRONMENT STATEMENT-0000013964

Company Information

Application UAN number

MPCB-CONSENT 0000009208

Company Name

Dhariwal Infrastructure Limited

Address

Dhariwal Infrastructure Limited

C-6, C-7 & C-8

Capital Investment (In lakhs)

393811

Pincode

442406

Telephone Number

9561112004

Region

SRO-Chandrapur

Last Environmental statement submitted online

yes

Consent Valid Upto

31.12.2018

Taluka

Tadali Industrial area MIDC

Scale

LSI

Person Name

Devendra Tripathi

Fax Number

07172237992

Industry Category

Red

Consent Number

BO/RO(Chandrapur)/CAC-CELL/CAC-1703001440 21.03.2017

Village

Tadali

Submitted Date

29-09-2018

City

Chandrapur

Designation

Manager-HSE

Email

devendra.tripathi@rp-sq.in

Industry Type

R48 Thermal Power Plants

Consent Issue Date

Actual Quantity in m3/day

Product Information

Product Name

Electricity generation

Consent Quantity

Consent Quantity

Consent Quantity in m3/day

5256000

Actual Quantity

2393267

UOM

Mwh

By-product Information

By Product Name

0

Actual Quantity

UOM

1) Water Consumption in m3/day

Water Consumption for

Process

Cooling

0

Domestic All others

Total

40

0

5280

49440

54760

1539

13862

37

0

15438

1) Effluent Generation in CMD / MLD

Particulars

Consent Quantity

Actual Quantity

UOM

Description of the second

v

		32	32		CMD	
	er unit of product)	mption (cubic meter of	During the Previo	ous During t	he current	VOI
Power Generation	2 (Production)		financial Year 2.42	Financia 2.35		001
of raw material p	Consumption (Consun	nption				
Name of Raw Ma	terials	During the Previous Year	financial D	uring the current	: Financial ye	ar UO
Coal		0.6555564	0.	6100388		
LDO		0.000001193	0.	00000032924		
Hydrochloric Acid		0.0000440	0.	0000581		
Caustic Lye		0.0000235	0.	0000324		
Sulphuric Acid		0.0002813	0.	0002756		
Sodium hypochlorit	e	0.0002107	0.	0002649		
Alum		0.0000502	0.	000429		
Lime		0.0000034	0.0	0.0000049		
4) Fuel Consumpt Fuel Name Coal	tion	Consent quantity 4029600	Actual 145998	Quantity	ИОМ МТ/А	
LDO		4066	787		KL/A	
Pollution discharg	ged to environment/u	nit of output (Parameter as s	pecified in the co	nsent issued)		
[A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutant discharged(Mg/Lit) Except PH,Temp,Colour Concentration	from pr	age of variation escribed ds with reasons ion	Standard	Reaso
	1.00		70 V al la l			
Our Industry is ZLD	0	0	0		2100	0
Our Industry is ZLD B] Air (Stack) Pollutants Detail	Quantity of Pollutants discharged (kL	Concentration of Pollo discharged(Mg/NM3)	0 utants Perce variat presc	ntage of tion from ribed standards reasons	2100	0
B] Air (Stack) Pollutants Detail	Quantity of Pollutants discharged (kL Quantity	Concentration of Pollo discharged(Mg/NM3) /day) Concentration	utants Perce variat presc with t	tion from ribed standards reasons	Standard	Reason
B] Air (Stack)	Quantity of Pollutants discharged (kL Quantity	Concentration of Pollo discharged(Mg/NM3) /day)	utants Perce variat presc with I	tion from ribed standards reasons		11000
B] Air (Stack) Pollutants Detail Stack -1 (Particulate Matter)	Quantity of Pollutants discharged (kl Quantity 102.8	Concentration of Pollo discharged(Mg/NM3) /day) Concentration	utants Perce variat presc with t	tion from ribed standards reasons	Standard	Reason
BJ Air (Stack) Pollutants Detail Stack -1 (Particulate Matter) Stack -2 (Particulate Matter)	Quantity of Pollutants discharged (kL Quantity 102.8	Concentration of Polli discharged(Mg/NM3) /day) Concentration 27.5	utants Perce variat presc with t %vari	tion from ribed standards reasons	Standard 50	Reaso
BJ Air (Stack) Pollutants Detail Stack -1 (Particulate	Quantity of Pollutants discharged (kL Quantity 102.8 485	Concentration of Pollodischarged(Mg/NM3) /day) Concentration 27.5 24.5	utants Perce variat presc with i %vari 0	tion from ribed standards reasons	Standard 50 50	Reason 0
BJ Air (Stack) Pollutants Detail Stack -1 (Particulate Matter) Stack -2 (Particulate Matter) MAZARDOUS WAS) From Process	Quantity of Pollutants discharged (kL Quantity 102.8 485	Concentration of Pollodischarged(Mg/NM3) /day) Concentration 27.5 24.5	utants Perce variat presc with i %vari 0	tion from ribed standards reasons ation	Standard 50 50	Reaso

7776

618.6

CMD

Trade Effluent

33.3 Discarded containers / barrels / liner Other Hazardous Waste			0	
			46	Nos./
cilities		is	Total During Current Financia	ı uoı
Hazardous Waste Type 34.4 Chemical sludge, oil and grease skimming residue			year ∩	MT/A
add on mining residue	•			11177

(TE)	Financial year		uring Current Financial year	UOI
30/803		448906		MT/A
33358		44267		MT/A
AND THE PROPERTY OF THE PROPER				
	revious Financial year		al During Current Financial year	UOI
0		U		MT/
tilized within the				
	Hill with the man and a man and	Financia	에 하는 것이 있는 것이 없는 데 하면 하나 하는데 하는데 하는데 하는데 하는데 하나	UOI
			9 <i>ear</i> 0	MT/A
) of haz	ardous as well as solid wastes and	, , , , , , , , , , , , , , , , , , ,
nerated	: [기념] 기념 [기념] 기업 기업 기업 기업 시간 기업 시간 기업	иом	Concentration of Hazardous Was	te
5.1 Used /spent oil			Well below the norms, Testing report attached	
lue from water purification	0 0	MT/A	Well below the norms	
34.4 Chemical sludge, oil and grease skimming residue			0	
33.3 Discarded containers / barrels / liner			0	
	46	Nos./Y	It is Battery Waste and well below the consented quantity	2
ed Qty	of Solid Waste	UOM	Concentration of Solid Waste	
	rease skimming residue Total During Previous 307803 33358 Total During P 0 tilized within the stics(in terms of conceopted for both these conceo	cilities Total During Previous Financial year 307803 33358 cilities Total During Previous Financial year 307803 33358 cilities Total During Previous Financial year 0 tilized within the Total During Previous year 0 stics (in terms of concentration and quantum opted for both these categories of wastes. nerated Qty of Hazardous Waste 29.19 due from water purificatio 0 ease skimming residue 0 ease skimming residue 0 ease skimming residue 0 ease skimming residue 0 46	cilities Total During Previous Financial year 307803 33358 Total During Previous Financial year 307803 448906 44267 Total During Previous Financial year 0 Total During Previous Financial year 0 tilized within the Total During Previous Financial year 0 stics (in terms of concentration and quantum) of haz opted for both these categories of wastes. Total During Previous Financial year 0 stics (in terms of concentration and quantum) of haz opted for both these categories of wastes. Total During Previous Financial year 0 stics (in terms of concentration and quantum) of haz opted for both these categories of wastes. Total During Previous Financial year 0 stics (in terms of concentration and quantum) of haz opted for both these categories of wastes. Total During Previous Financial year 0 NT/A due from water purificatio 0 MT/A Alue from water purificatio 0 Nos./Y	Total During Previous Financial year 0 Total During Previous Financial year 0 Total During Previous Financial year 307803 33358 Total During Previous Financial year 448906 Total During Previous Financial year 0 Total During Previous Financial year 0 Total During Previous Financial year 0 Total During Current Financial year 0 Total During Current Financial year 0 Stics (in terms of concentration and quantum) of hazardous as well as solid wastes and opted for both these categories of wastes. Total During Previous Financial year 0 Stics (in terms of concentration and quantum) of hazardous as well as solid wastes and opted for both these categories of wastes. Total During Current Financial year 0 Stics (in terms of concentration and quantum) of hazardous as well as solid wastes and opted for both these categories of wastes. Total During Current Financial year 0 Waste 29.19 MT/A Well below the norms, Testing report attached Stics (in terms of concentration of MT/A Well below the norms of the previous financial year 1 OND Concentration of Hazardous Wastes 29.19 MT/A Well below the norms was 29.19 MT/A Well below the norms was 29.19 MT/A OND MT/A ON

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

MT/A

NA

44267

BOTTOM ASH

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
2015-16	0.	0	0	0	0	0
2016-17	1284	37686	0	8.32	386	4155
2017-18	458	0	298 Kg/day	8376435	503	0

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution. [A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection

Expenditure made on

Capital Investment (Lacks)

Total exp made (capital & recurring) on Air pollution, water pollution and land pollution control measures, Greenery development and other Environment protection measures

Expenditure made on Air pollution, water pollution and land pollution control measures, Greenery development and other Environment protection measures

Environmental Protection Measures

503

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection

Environmental Protection Measures

Capital Investment (Lacks)

Total exp made (Capital) proposed on Air pollution, water pollution and land pollution control measures, Greenery development and other Environment protection measures

Expenditure proposed for on Air pollution, water pollution and land pollution control measures, Greenery development and other Environment protection measures as recurring is 206 lacs

673

Any other particulars in respect of environmental protection and abatement of pollution.

Particulars

Factory has already implemented all the necessary pollution control measures. Green belt development programme is a regular features.

Name & Designation

DEVENDRA PRASAD TRIPATHI, MANAGER HSE