

**KSK MAHANADI POWER
COMPANY LTD. (6 x 600 MW
Coal Based Thermal Power
Plant) at Nariyara –Village,
Janjgir-Champa - District. ,
Chhattisgarh**

**SIX MONTHLY COMPLIANCE REPORT OF
SPECIFIC CONDITIONS Amended and Extended
Validity of Environment Clearance [Ref. Letter No-
J13012/44/2008-IA.II(T) Dated 23.09.2015 & [E.C Ref.
Letter No- J-13012/44/2008-IA.II(T), Dated 19.10.2009**



***FOR PERIOD:
DEC. 2016 TO
MAY.2017***

S. No.	Condition	Compliance
1	Two tri-flue stacks of 275 m height should be provided.	Two nos. of RCC stacks already been provided for all the six units. The height of both the stacks is 275 meters from the ground level.
2	COC of 5 shall be maintained	Cycle of Concentration 5 has been maintained.
3	To utilize fly ash generation from power plant, the proponent should explore the possibility of setting up either its own cement plant /grinding unit and/or a brick manufacturing unit of 50,000/1,00,000 bricks/day capacity, and explore other possibilities of utilizing the fly ash in full form the stipulated period.	<p>During the 1st year of operation 55 % of Fly ash has been utilized (against target of 50%)</p> <p>For the 2nd year of operation 86 % of Fly ash has been utilized (against target of 70%). For the 3rd year of operation 70 % of Fly ash has been utilized (against target of 80 %). For the 4th year of operation 82% of fly Ash has been utilized (against target of 100%).</p> <p>Long term action plan is enclosed as Annexure-I</p>
4	For post project monitoring, the proponent should set up piezometric monitoring station around the ash pond.	<p>4 Nos. of Piezometric wells have been provided around the ash pond area.</p> <p>Images of Piezometers is enclosed as Annexure-II</p>
5	From 4 th year onwards, the transportation of coal should be through rail only.	Rail line infrastructure has been made for coal transportation from SECL, Korba. 80% of Raw coal is being transported from the SECL, Korba area to plant head & remaining coal is being transported through road mode
6	The green belt to be provided should be of canopy type with three tiers.	<p>A green belt of 5/6 tiers, in 100 meter width is being developed, along the periphery of the plant boundary.</p> <p>Species selection has been made on the basis of local Climatological factors and soil characteristics.</p> <p>(i.e. Sisam, Peltiform, Satvan, Karanj, Sirius Simarua, Neem, Ganga imili, Pepal, Kadam, Cassia Siamia, Chinour, Arjuna, Mango, Bargad, Jamun, Amla, Gulmohar are being used in rows to maintain canopy type and strata)</p> <p>Till date total 2,97,000 number of saplings have been planted in 224 hectares of project land and further plantation is in progress. Photos of the Greenbelt developed at site is attached as Annexure-III.</p>
7	An amount of 64 crore as capital and Rs. 10 crore/annum as recurring should be earmarked for the activities to be taken up under CSR by the above proponent. Details of activities to be undertaken in this regard	As on date Rs. 51 Crores had been spent for CSR activities, the detail of the work activities under CSR is enclosed as Annexure-IV . Similarly the report has been communicated to MOEF and Regional Office, Bhopal including

S. No.	Condition	Compliance
	should be submitted.	CECB, Raipur on regular basis.
8	High efficiency of Electrostatic Precipitator (ESP) with spare fields shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	<p>High efficiency ESP + Hybrid Fabric Filter combination, with 99.7% efficiency had been installed.</p> <p>Note: ESP +FF combination is commissioned for unit#1& 2 (each of 600MW) and emissions are well within 50mg/m³</p> <p>Average Emission of Particulate Matter from operation of Units #1 & 2 is 20 To 30 mg/Nm³. Details of stack emission are presented in Annexure-V.</p>
9	Space provision shall be kept for retrofitting of FGD system, if required at a later date.	Space provisions have been made for retrofitting of FGD system in Project lay out.
10	Adequate dust extraction such as cyclones/bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	<p>Following provisions have been made to control the Fugitive emissions:</p> <ul style="list-style-type: none"> ➤ Pulse Jet type bag filters have been installed at all the Transfer points and on coal conveyor system meant for Coal transport from CHP area to boiler area. ➤ 44 Nos. of Rain guns with Water spraying system has been installed in the Coal yard area. <p>Fly ash silo top is mounted with 2 Nos. of Bag filters to arrest fugitive dust, similarly</p> <p>Water spraying system has been provided to mitigate fugitive dust from the dust prone area.</p>
11	A Sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/plantation.	<p>STP having capacity of 2 x 25m³/Hr., is under operation, for treating Domestic waste water.</p> <p>The treated waste water is being reused for green belt and horticulture purpose.</p>
12	Rainwater harvesting should be adopted. Central Ground Water Authority/board is consulted for finalization of appropriate rain water harvesting technology within a period of three months from the date of clearance and details shall be furnished.	<ul style="list-style-type: none"> ➤ Rain water harvesting structures have been constructed as per approved plan of CGWB. ➤ Rainwater harvesting pond has been constructed with a capacity of 60 CUM, abandoned bore wells have been converted in to rain water recharge wells and Percolation structures have been constructed in low lying areas

S. No.	Condition	Compliance
		Details are enclosed as Annexure-VI
13	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season.	Adequate provision for dust suppression system-water sprinkling arrangement has been incorporated in the project in all dust vulnerable areas including coal storage yard and being operated regularly to minimize fugitive emissions. All safety measures have been adopted to check/minimize any incidents of fire and especially in summer season. Two full-fledged fire tenders are available at site.
14	Storage facilities for auxiliary liquid fuel such as LDO/HFO/LSHS shall be made in the plant area where risk is minimum to the storage facilities. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place. Sulphur content in the liquid fuel not exceed 0.5%	On Site Disaster Management Plan has been approved by factory Inspector and the same is being implemented during operation of the power plant.
16	Regular monitoring of ground water in and around ash pond area including heavy metals (Hg,Cr,As,Pb) shall be carried out, records maintained and six monthly reports shall be furnished 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 in and around ash dyke areas is being done to have check the heavy metals into the ground water.
17	A greenbelt of adequate width and density shall be developed around the plant periphery covering 1/3 rd of the project area with local species.	A green belt of 5/6 tiers, in 100 meter width is being developed, along the periphery of the plant boundary. Species selection has been made on the basis of local Climatological factors and soil characteristics. (i.e. Sisam, Peltraforms, Satvan, Karanj, Siris Simarua, Neem, Ganga emali, Pipal, Kadam, Cassia siamia, Chinour, Kahua, Mango, Bargad, Jamun, Amla, Gulmohar are being used in rows to maintain canopy type strata) Till date total 2,97000 no's of saplings have been planted in 224 hectares of project land and further plantation is in progress. Photos of the Greenbelt developed at site is attached as Annexure-III .

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18	First Aid and sanitation arrangements shall be made available for the drivers and other contract workers during construction phase.	Adequate arrangement for first aid, sanitation and safe drinking water has been provided for all drivers and contractor workers during construction activities.
19	<p>Regular monitoring of ground level concentration of SO₂, NO_x, Hg, SPM and RSPM shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately.</p> <p>The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.</p>	Regular ambient air quality monitoring of ground level concentration of SO ₂ , NO _x , CO, PM10 and PM2.5 is being carried out in the impact zone and the details are being submitted on monthly basis to CECB, Chhattisgarh. The values are well within the prescribed limits
20	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 /office of Municipal Corporation/Gram Panchayat concerned and on the company's web site 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 .	<p>The Public Notice of Environmental Clearance has been published in two local newspapers namely- The Haribhumi and Danik Bhaskar on 23.10.09 which are widely circulated in the region.</p> <p>Enclosed as Annexure -VII</p> <p>Complied</p>
21	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZilaParisad / 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.	<p>Complied</p> <p>Environmental Clearance letter has been placed in the website of the company.</p>

S. No.	Condition	Compliance
22	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitoring 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, SO ₂ , NO _x (ambient levels as well as stack emissions) shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Status of compliance of EC conditions has been uploaded as stipulated and is being updated regularly on Six monthly basis.
23	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 SPCB.	Half yearly report for the period of May 2016 to Nov 2016 has been submitted vide Letter No. MoEF&CC/NPUR/STKM/2500108/1452 Dt: 12.12.2016. Enclosed as Annexure-VIII
24	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 of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MOEF by e-mail.	Environment Statement for the Financial year 2016-17 submitted vide letter no.-CECB,BILAS/SKGT/2500108/1792 Dtd.16.06.2017 Enclosed as Annexure-VIII (A)
25	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	An Environment Management cell has been setup, headed by Sr. General Manager.
26	Regional Office of the Ministry of Environment & Forests located at Bhopal will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report, 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.	A complete set of documents has been submitted to Regional Office of the Ministry vide Ref: MOE&F, BHPL/AGRY/1160201/1147 Dated 09.12.2009.

S. No.	Condition	Compliance
27	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.	As submitted in the EIA report separate amount of Rs. 1246 Cr. has been provided for pollution control, treatment and monitoring systems.
28	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.	<ul style="list-style-type: none"> • Date of financial closure: Feb, 2010. • Date of start of land development work Nov, 2009. • Unit No.-1 (1 x 600 MW) is under operation since Sep 2013 • Unit No.-2 (1 x 600 MW) is under operation since Sep 2014 • Work is in progress on fast track basis for other remaining units.
29	Full cooperation shall be extended to the Scientists/Officers from the Ministry/Regional Office of the Ministry at Bangalore/the CPCB/the SPCB who would be monitoring the compliance of Environmental status.	Shall be complied as per the requirements of CPCB and CECB Raipur, Chhattisgarh.
30	The total project area shall comprise of 828.46 Ha as stipulated while issuing the EC	Complied
31	An amount of Rs 64 crores as capital and Rs 1.83 Crores /annum (or the amount as per the CSR policy of GOI whichever is higher) as recurring costs should be earmarked for CSR activities to be undertaken in this regard shall be submitted.	As on date Rs51Crores had been spent for CSR activities, the detail of the work activities under CSR is enclosed as Annexure-IV . Similarly the report has been communicated to MOEF and Regional Office, Bhopal including CECB, Raipur on regular basis.
32	Continuous online monitoring system for stack emissions, ambient air quality and effluent discharge for various relevant parameters shall be put in place at the earliest, if already done and compliance to be reported to this ministry including its RO	<p>Continuous online monitoring system for stack emissions is already installed & working w.r.t operation of Unit No 1 & 2.</p> <p>On line monitoring data is already showing at main gate display board and website-portal of KMPCL.</p> <p>4 CAAQMS have been installed</p> <p>Continuous Effluent Monitoring systems have been installed. Photos attached as Annexure-IX</p>
33	Harnessing solar power within the premises shall be carried out and the status of	Options of Harnessing of Solar power at available roof tops within the premises of is

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	implementation including actual generation of solar power shall be submitted along with half yearly monitoring report.	being explored out and details will be submitted shortly
34	A long term study of radio activity and heavy metals contents on coal to be used shall be carried out through reputed institute and results thereof analyzed every two year and reported along with monitoring reports. Therefore mechanism for an in built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	<p>Long term study of radio will be carried out through reputed institute. However, the following measures have been taken to minimiz the leaching if any in coal yard and ash storage systems</p> <ol style="list-style-type: none"> 1. 300mm CC Flooring has been done in Coal yard area. 2. Construction of garland drain, all along the Coal yard, from where waste water is collected and after treatment in ETP, the water is being reused for dust suppression <p>Following measures has been implemented for Ash Dyke area, to check the leaching of Heavy metals into the ground water table :</p> <ol style="list-style-type: none"> 1. Both Bottom & Fly ash Dykes has been floored with 0.75Micron LDPE. 2. Three No's of Pizzo metric Wells have been constructed, along the periphery of ash Dykes, for regular monitoring of Qty & Quality of ground water to assess the contamination or leaching of heavy metals from ash dyke area
35	Mercury emissions from stack shall be monitored on periodic basis.	Stack Emissions monitoring is being done monthly intervals for SO ₂ , NO _x , CO & Particulate matter. Mercury and other heavy metals and reports submitting to SPCB
36	Fugitive emissions shall be controlled to prevent impact on agricultural or non-agricultural land.	<p>Following provisions have been made to control the Fugitive emissions:</p> <ul style="list-style-type: none"> ➤ Pulse Jet type bag filters have been installed at all the Transfer points meant for Coal transport from CHP area to boiler area. ➤ 44 Nos. of Rain guns with Water spraying system has been installed in the Coal yard area. <p>Fly ash silo top is mounted with 2 Nos. of Bag filters to arrest fugitive dust, similarly</p> <p>Water spraying system has been provided to mitigate fugitive dust from the dust prone area.</p> <p>Apart from that a thick green belt is already developed around plant boundary to arrest fugitive emission from non-point sources.</p>

S. No.	Condition	Compliance
37	No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up/operation of the power plant.	Adequate measures had been implemented to take care of natural drainage system.
38	Fly ash shall not be used for agricultural purpose. No Mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media such as that no leachate shall take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the state pollution control board.	Complied
39	Details of 100% Fly ash utilization plan as per latest Fly ash Notification of GOI along with firm agreements/ MOU with contracting parties including other usages etc. shall be submitted. The plan shall also include disposal method/ mechanism of bottom ash.	<p>During the 1st year of operation 55 % of Fly ash has been utilized (against target of 50%)</p> <p>For the 2nd year of operation 86 % of Fly ash has been utilized (against target of 70%). For the 3rd year of operation 70 % of Fly ash has been utilized (against target of 80 %). For the 4th year of operation 82% of fly Ash has been utilized (against target of 100%).</p> <p>Long term action plan is enclosed as Annexure-I</p>
40	Green belt shall also be developed around the ash pond and above the green belt around the plant boundary.	<p>For green belt, more than 30000 saplings have been planted all around the ash dyke area, covering area of approx. 25 Ha.</p> <p>A green belt of 5/6 tiers, in 100 mtr width is being developed, along with the periphery of the plant boundary.</p> <p>Species selection has been made on the basis of local Climatological factors and soil characteristics.</p> <p>(i.e. Sisam, Peltiform, Satvan, Karanj, Siras, Simarua, Neem, Ganga emili, Pepal, Kadam, KesiaSamia, Chinour, Arjuna, Mango, Bargad, Jamun, Amla, Gulmohar are being used in rows to maintain canopy type and strata)</p> <p>Till date total 297000 number of saplings have been planted in 224 hectares of project land and further plantation is in progress.</p> <p>Photos of the Greenbelt developed at site is attached as Annexure-III</p>

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41	An environment Cell comprising of at least one expert in environment science/Engg. Ecology, occupational health and social science, shall be created preferably at project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the head of the cell shall directly report to the Head of the plant who would be accountable for implementation of environmental regulations and social impact improvement/mitigation measures.	Environment Cell is already established which includes Environment Engineer, Environmental scientist, Ecologist, Horticulturist and socio science experts from inception of project operations. Environmental cell head is directly reporting to plant. EMD cell basic responsibility is to implement environmental compliance conditions of MOEFCC and CFE and CFO and also implement environmental measures.
42	CSR schemes identified based on public hearing issues and need based assessment shall be implemented in consultation with the village panchayat and the district administration starting for the development of project itself. AS part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken. Company shall provide separate budget for community development activities and income generating programs.	CSR schemes already identified based on public hearing issues and need based assessment & implemented in consultation with the 4 village panchayat and the district administration. Also Company already provided separate budget for community development activities.
43	For proper and periodic monitoring of CSR activities, a CSR Committee or a social audit committee or suitable credible external agency shall be appointed. CSR activities shall also be evaluated by an independent external agency. This evaluation shall be both concurrent and final	Regular monitoring of CSR activities is being done by Plant authorities and also appraised to District administration.
44	The project proponent shall formulate a well laid corporate environment policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.	Corporate Environmental policy will be finalized as per laws and regulations. At present the environmental affairs has been evaluated by the environmental cell headed by Environmental Officer.
45	All other conditions in this Ministry's letter of even no. dated 19.10.2009 and amendment dated 24.01.2012 shall remain the same.	Agreed & complied.

ANNEXURE - I

Action Plan for FLY ASH UTILIZATION in KSK Mahanadi Power Company Limited., Nariyara, CG

(in million Tones)

S. No	Item Description	Sept 2015 – Aug 2016	Sept 2016 – Aug 2017	Sept 2017 – Aug 2018
1	<i>Expected Total generation of fly ash in million tonnes per annum</i>	1.50	2.00	2.50
a	Use in Stowing and filling up of abandoned coal and other mineral mines	0.10	0.30	0.50
b	Use in Filling up of abandoned stone quarry mines	0.05	0.10	0.15
c	Use in fly ash in brick manufacturing	0.05	0.05	0.05
d	Road development in surrounding areas	0.10	0.10	0.10
e	Use in Cement manufacturing	1.10	1.55	1.80
2	<i>Expected Total Fly Ash Utilization</i>	1.40	2.00	2.50
3	<i>Expected Fly Ash Utilization (%)</i>	93.3	100.0	100.0

ANNEXURE - II

PIZZOMETER BOREWELLS AT KSK-MPCL

PZ-1



PZ-2



PZ-3



PZ-4



ANNEXURE - III

GREEN BELT DEVELOPMENT IN M/S KMPCL in FY2016-17







ANNEXURE - IV

KSK Mahanadi Power Company Limited, Nariyara

CSR Activities Expenses as on 30th April 2017

Si.	Focus Area	Number of Works	Exp. (in Rs.)
A.	Education & Capacity Building		
1	Scholarship distributed to 81 meritorious students of project villages.	81 Students	81268.0
2	Financial support to 07 students of land looser for higher Studies.(B.E.-2. Poly. 2, MBBS-1, MBA-1, MS(Dental-1)	07 Students	4113725.0
3	Construction of 09 School Boundary Wall of Project villages.(Nariyara-3, Taroud-1, Rogda-1, Latiya-1, Banahil-2, Amora-1)	09 School Boundary	2918987.0
4	Construction and Repairing of Toilet and Urinal of 20 Govt. School. Drinking Water Facility installed in 19 Schools.	20 Schools	2999420.0
5	Sports items distributed to 38 schools . Volleyball pole installed in 19 Schools and distributed Volleyball Kit.	38 Schools	145163.0
6	Provided ITI training to 204 local youth (Fee paid for 1st & 2nd Year)	204 Students	7828087.0
7	Provided 14 Teachers from KMPCL to 11 Govt. Schools in Project Affected Villages (13 General Teachers and 01 Computer Teacher)	11 Schools, 14 Teachers	4965678.0
8	Provided complete Furnitures,Almirah to newly opened Kendriya Vidyalaya at Janjgir and also prvided Computer, LED, furniture for E-Learning & Smart Class Center at Taroud and Nariyara	Central School	2097082.0
9	Orgnized 04 Eco Club Program in Govt. School Dongakohroud, Amora and Nariyara	04 Eco Clubs	21441.0
10	Provide Support for Infrastructure Play Ground, Stone Dust, Additional class rooms etc.	2 play grounds	1319813.0
11	Support for Sports developments activities - School Sports competition, Paralympic games, Cricket, Kabaddi Scouts		573338.0
12	Expances on establishment of ITI at Nariyara Village.		740904.0
13	Solar LED Lamps Distribution for School going Children		2856088.0
14	Education related other Small activities		121645.0
	Total -		30782639.0
B.	Health & Family Welfare		
1	Provided Fianacial Support to construct SRI SATYA SAI SANJEEVANI HOSPITAL at New Raipur , Chattisgarh		247334266.0
2	Provided Emergency Ambulance Services to 2486 Persons.	2486 emergency services	4027366.0
3	Organized 1592 Health Camps benefitted 74871 Persons.	74871 persons benefitted	4768446.0
4	Purchasing of Air dust Sampler and donated to C.G. State Environment Control board	1 Air Dust Sampler	446779.0
5	Infrastructure and Medical facilities in Akalatar Hospital - 10 Nos of Hospital Beds, medical equipments. ECG Machine, X-Ray Cassete etc.	10 Hospital Beds	492961.0
6	Drinking Water Pipeline Expansion work (1446 Meter) in different Ward of Nariyara Village	1446 Meter Pipe Line Expansion	1328408.0
7	Financial support to Nagar Palika Parishad, Akaltara for purchasing of Ambulance	1 Ambulance Van	400100.0
8	Financial Support for treatment of diseases on Accident / Death Cases.	9 Persons	1014441.0
9	Health related other Small activities		656009.0
	Total -		260468776.0
C.	Sustainable Development		
1	Provided Financial Support to 11 persons for livelihood creation - Mr. Vishnu Singh(Handicapped) village Latiya for mobile recharge shop, Mr. Manrakhan. Rogda for purchasing of Masonry items. Narayan Sahu Rogda for Cable Business, 8 people of Dongakohroud	11 persons	116700.0
2	Financial Assistance to 4 Women SHGs for Entrepreneurs Development / Income generation activities	04 SHGs	65000.0

3	Orchard Development and Plantation activities . Development of Collectorate Garden Janjgir, Keshav Kunj Taroud. (Total 45361 tree planted in Schools, Community places, National Handloom Technolgy Campus Champa)	45361 Trees	6697870.0
4	Pond deepening of 15 Ponds of project affected villages. Nariyara(Ludia, Patharra), Murlideeh(Sami and Dabari), Akaltara(Gopia) Jhalmila(Jhilmili), Banahil(Koushalsagar), Rogda(Adbandha), Taroud(Talwa), Amora(Lanketar, upka nala and Bhulau dabri), Latiya(Ramtala & Kurru), Nawagarh(Manakadai pond)	15 Pond deepaning	12055497.0
5	Pond cleaning of 7 Ponds of project affected villages.Nariyara(Darri, Dongia), Amora(Dikuliya, Maheshwar, Upka), Taroud(Futaha), Rogda(Lachhmania)	Pond cleaning of 7 Ponds	356375.0
6	Provided Furniture and office setup for Animal Husbandry Services		172826.0
7	Construction 16 pond Steps at (Rogda-4, Latiya-3, Murlideeh-3, Dongakohroud-2, Nariyara-1, Pakariya-2, Amora-1)	16 Pond Steps	1553460.0
8	Repairing of Minor Canal(600 Meter) at Murlideeh village		74481.0
9	Other Sustainable Development Activities(Small activities)		587409.0
	Total -		21679618.0
D. Infrastructure Development			
1	Boundary wall. Concretized Shed and Platform Construction of Mukti Dham at Nariyara Village.	1 Mukti Dham	1107753.0
2	Construction of 05 concretized sheds at Nariyara(a), Rogda(2) and Banahil(1), Kharoud-1	05 Concretized Shed	1110705.0
3	Construction of 13127 Meter CC Road . (Nariyara-601 Mtr, Taroud -1110 Mtr, Amora -1350 Mtr, Rogda -1663 Mtr, Banahil -385 Mtr, Latiya -950 Mtr, Pakariya -1480 Mtr, Murlidih -3591 Mtr, Pamgarh -200 Mtr, DongaKohroud-613 Mtr, Basantpur-302 Mtr, Janjgir-830 Mtr, Akaltara-52 Mtr,)	13127 Meter CC Road	25566469.0
4	Construction of culverts, fixing of Hume-pipe and mini stop dam construction.	3 villages	347158.0
5	Development of Land Escape Gardening at Collectorate -Janjgir, Development of keshavkunj, Fencing work of tree plantation at Nariyara	2 Gardens	977615.0
6	Construction of Square at Taroud Janjgir Turning.	1 Chowk	598068.0
7	Construction of 05 Welcome Gates at Rahod Nangar Panchayat and Nawagarh(Durg).	05 Welcome Gates	1416918.0
8	Construction of (2555 meter) Long WBM Roads Rogda to Taroud(700 m), Banahil (320 m), Rogda-(385 m), Taroud (250m), Rogda to CCI Road(700 m), Nariyara(200 m)	2555 Mtr WBM Road	3506732.0
9	Repairing of street and Roads of School and Others community places by feeling stone dusts.		340500.0
10	Construction of Peripheral Road from Nariyara to Taroud via Rogda.		66642867.0
11	Installation of 02 High Mast Lamp at Akaltara(Ambedkar Chow and Shashtri Chowk)	2 High Mast Lamp	447178.0
12	Construction of Kachcha Drainage for water recharging at Rogda and Latiya. Also constructed drainge cover in Pakariya.		285683.0
13	Construction of 200 meter Retaining Wall at Dongia pond(120 mtr) - Latiya and Bandwa pond(80 mtr) - Dongakohroud.	200 Mtr Wall	968690.0
14	Construction of 02 barricading walls on Pakariya (Bridge over Bagbudua Nala) and Tarod (Bridge over Canal near Mokhana Pond)		144892.0
15	Construction of Boundary wall, main gate, Fortification of Yoga-room, steel Barricading etc. of Vivekanand Udyan, Rambanadha pond Champa	Champa Udyan	4309625.0
16	Installation of 77 Street Lights along with electric meter in Nariyara(32), Taroud(15) and Donga Kohroud(15) Village, Akaltara(9), Murlideeh(6).	77 Street Lights	541006.0
17	Installation of 30 Solar Street Lights in our project villages at common places.	30 Solar Lights	646840.0

18	Installation of Electric Transformer(25 KV) at Rogda	1 Transformer	225023.0
19	Electric expansion work by establishing 23 electric poles - Rogda(13 Poles) at Bhatapara ; Amora (10 poles) at Sagarpara and Lodar Colony	23 Electric Poles	444686.0
20	Construction of 05 Over Head Water Tank at Banahil - Roga, Latiya, Taroud and Nariyara.	5 Water Overhead Tanks	6278268.0
21	Construction of 09 Boundary wall. Panchayat and Hospital Campus of Taroud, Community building, Pathrrapara Ward 10, Mangal bhawan, Veterinary Hospital of Nariyara, Devsthal of Pakariya, Banahil Panchayat Campus, Rogda Play ground, Taroud Play Ground)	09 Boundary Walls	5899870.0
22	Construction of 03 pump house , at Rogda, Banahil and Nariyara	3 Pump House	390211.0
23	Repairing of street and solar lights		563949.0
24	Installation of 67 New hand pumps. Nariyara(17), Rogda(7), Taroud(10), Amora(12), Banahil(6), Jhalmala(2), Murlideeh(2), Latiya(6), Pakariya(5)	67 New Hand Pumps	3199016.0
25	Construction of 02 Community Hall in Nariyara and Dongakohroud	2 Community Building	2039867.0
26	Construction of Gothan at Nariyara, Gurughasidas chabutara construction Amora, Shed Const at Tahsil Campus Akltara, Fabrication and fixing of school gates of school boundary wall.		298562.0
27	Pipe line connection with water supply of hospital at Akaltara Hospital		75315.0
28	Financial Support To District Police Administration for establishing 15 CCTV Cameras on identified sensitive location.	15 CCTV Camera	1024190.0
29	Electricity Facility in 27 Schools	27 Schools	35850.0
30	Provided 09 water tanker Nariyara, Tarod, Banahil, Amora, Rogda, Murlidih, Latiya, Pakariya and Dongakohroud villages for better drinking availability.	09 Water Tankers	1237870.0
31	Provided support for establishing 10 Submersible Pumps - Nariyara (Patharrapara 10HP, 2HP ward 19, 7.5 HP Sagar par, Ramgudi 1 HP, Ward 19 5 HP, Ward 20 5 HP) Murlideeh((5HP Sami Pond), Rogda(1.5 HP, Lachhmania Pond), Taroud(Gram Panchayat 1 HP, 5 HP keshv kunj)	10 new Submersible Pumps	382663.0
32	Establishment of Drinking Water Facilities at Govt. public offices, Hospitals etc. Pipe line expansion work along with water tank and shed construction.		239849.0
33	Supply and installation of 10 numbers of Bio-toilets in 8 schools in project affected villages	10 Bio Tilets	651000.0
34	For better drinking water facility Pipe Line expansion work - 11162 Meter , Akaltara(2125), Banahil (478), Nariyara(4270), Taroud(240), Rogda(3435), Pakariya (614)	11162 Meter Pipe Line	7601462.0
35	Repairing of 294 Defunct hand pumps and 9 Submersible Pump	294 Handpumps	227249.0
36	Construction of Veternary Hospital near Bus stand Nariyara	1 Veternary Hospital	632617.0
37	Const. of Mini Stadium at Taroud, Playground Leveling etc.		4213320.0
38	Other Small Infrastructure related Works/Activities		3653198.0
	Total -		148272734.0
E. Cultural & Community Support			
1	Financial support provided to District collector Janjgir for the organizing Jajwalya Dev Lok Mahotsav & Agricultural Technology Mela since last 05 years..	5 Years	1710147.0
2	Financial Support to State Level School Sports competition held at Janjgir district in year 2010, 2011 and 2014.	3 Years	100000.0
3	Provided financial support to Akaltara Education Trust for School Van .	1 School Van	320000.0
4	Pipe Line Expansion and Water Tank fitting at Siiddhidatri Temple, Amora		55947.0
5	Provided Financial support for block and district level Mini Olympic games .	1 Year	125000.0
6	Celebration of Ozone conservation Day at Govt. Higher Secondary School Amora		5735.0

7	Support for organizing District Level Paralympics games for disabled people at Akaltara	2 Years	11076.0
8	Supported District Administration for organizing Tricycle distribution Camp	1 year	125000.0
9	Supported District Administration for Celebrating Armed Forces Flag Day	2 Years	70000.0
10	Supported Disrict Administration for orgnizing Free Trainings to youth for Indian Army Selection		426386.0
11	Establishment of 09 Water Coolers at Govt. public offices, Hospitals etc. Pipe line expansion work along with water tank and shed construction.	09 new Water Coolers	289086.0
12	Support for construction of Kitchen Shed and Entrance Gate at Siiddhidatri Temple, Amora	1 Kitchen Shed 1 Entrance gate	347673.0
13	Provided Support for construction of boundary wall of Mankeshari Temple, Taroud and Radha Vallabh Temple Nariyara	2 Boundary wall	397654.0
14	Renovation of old hanuman temple of Amora.		227227.0
15	Construction of Concretized Shed at ghoradhar Temple of Latiya Village. Chandi Dai and Ramgudi of Nariyara and Matachaura of Rogda.		476206.0
16	Construction of 02 Jyoti Kalash room at Siddhidatri Temple, Amora and sheetla mata patharra para Nariyara	2 Jyoti Kalash Room	349316.0
17	Construction of Panchmukhi shiv Temple near Keraha Pond of Dongakohroud village		317193.0
18	Play Ground Leveling work in Dongakohroud village and Cultural stage construction in Taroud village	1 Play ground	178709.0
19	Support to Disaster Management Activities in 4 Villages of Jaijipur block of Janjgir District		2000000.0
20	Support to District Administration Jajgir-Champa for prinitng of leaflet of lok suraj abhiyan		69100.0
21	Provided Financial Support to District Basket Ball/Handball Championship		30000.0
22	Help to orgnize Cultural and Youth Development activities.		523531.0
23	Provided financial support to organize Local level games and sports competition - like Cricket, Kabaddi, Wrestling etc.		1202593.0
24	Help to Religious Activities. Donation to temple, trusts, on various occasion of Puja utsav.		5928676.0
25	CSR related Meetings /Training/ Stationary/Vehicle & Other Expenses		2451905.0
	Total -		17738160.0
F.	Miscellaneous Expenses		6168460.0
	SubTotal -		48,51,10,387.0
G.	Cost of Ambulance		512710.0
H.	Corporate Donation		21000000.0
	Grand Total(F+G+H)		506623097.0

(Rs. Fifty Crore, Sixty Six Lac, Twenty Three Thousand, Ninety Seven Only)

ANNEXURE - V

Annexure V

Particulate Matter Emissions for FY 2016-17		
Month	Unit # 1 (600 MW)	Unit # 2 (600 MW)
	Particulate Matter (mg/Nm³)	Particulate Matter (mg/Nm³)
April-16	30.2	33.1
May-16	33.7	32.4
June-16	33.7	26.9
July-16	35.0	30.5
Aug-16	33.9	31.4
Sept-16	21.8	17.1
Oct-16	Shutdown	23.5
Nov-16	26.5	22.4
Dec-16	22.1	Shutdown
Jan-17	Shutdown	Shutdown
Feb-17	25.8	27.2
Mar-17	27.3	29.7
Average	29	27.4

ANNEXURE - VI

Images of rain water harvesting measures implemented during project stage:



Figure 1- Recharge Well No 1



Figure 2 Recharge Well No 2



Figure 3 Recharge Well No-3



Figure 4 Recharge Well No-4

Storm water collection well for recharge the ground



Run Off Collection Tank



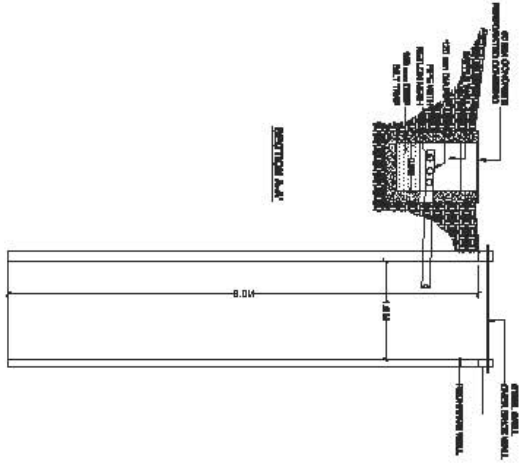
Largest RWH Structure-
Reservoir-3



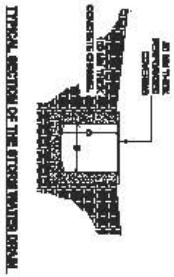
Image of Project Site- At Present (Source : Google Earth)



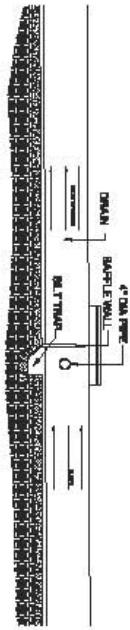
PROPOSED RWH STRUCTURES DURING OPERATION PHASE:



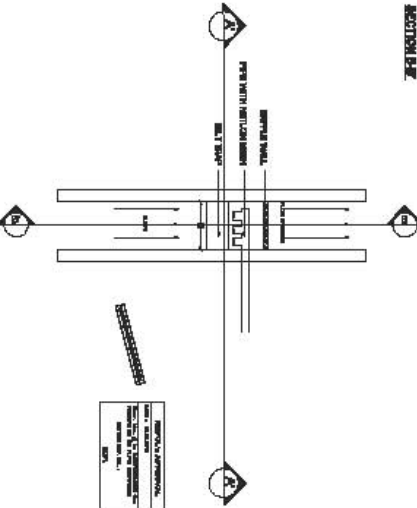
TYPICAL SECTION OF THE STORM WATER DRAIN



TYPICAL SECTION OF THE STORM WATER DRAIN



SECTION B-B

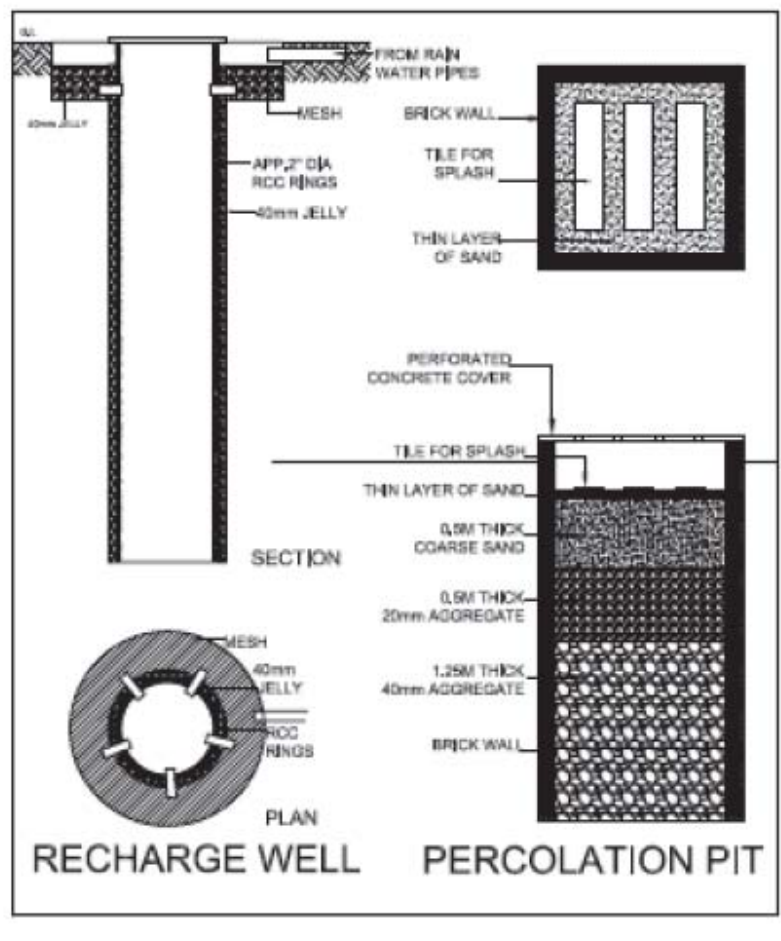


PLAN VIEW OF THE STORM WATER DRAIN

TYPICAL SECTION OF THE STORM WATER DRAIN

- NOTE
1. TO RETAIN AND CONSERVE ALL TREES ON SITE.
 2. ALL MEASUREMENT IN METER.
 3. ALL LEVEL AT FINISH FLOOR LEVEL UNLESS OTHERWISE MENTIONED.
 4. ANY DISCREPANCIES SHOULD BROUGHT TO THE ATTENTION OF THE AEP.

NSK (HONGKONG) POWER COMPANY LIMITED GENERAL MANAGER 15/F, AVIATION BUILDING HONG KONG AIRPORT HONG KONG		CONSULTANT HONG KONG AIRPORT HONG KONG
DESIGNER HONG KONG AIRPORT HONG KONG		CLIENT HONG KONG AIRPORT HONG KONG
DATE HONG KONG AIRPORT HONG KONG		SCALE HONG KONG AIRPORT HONG KONG
PROJECT NO. HONG KONG AIRPORT HONG KONG		PROJECT NAME HONG KONG AIRPORT HONG KONG
PROJECT LOCATION HONG KONG AIRPORT HONG KONG		PROJECT STATUS HONG KONG AIRPORT HONG KONG



The recharge well and a percolation pit

Annual Runoff Calculations:

Annual Run off Calculations				
Catchment	Area (Sq.Mtrs)	Run-Off Coeff.	Av. Annual Rainfall(mm)	Total Run off pers annum (KL)
Total Road area	131753	0.9	1157	137194.3989
Other Open area	1948247	0.6	1157	1352473.067
Total Site area	2080000			1489667.466

RECHARGE WELL CALCULATIONS

Volume of one recharge well:

Description Qty units
Diameter 1.5 m
Radius 0.75 m
Depth 6 m
Volume 10.59 cubic meters

Total of 147 recharge wells with a combined volume of 1579.027 cubic meters Over and above this, we can assume a 30% recharge rate.

This means that even while the well is filling up with rainwater, at the same time recharge is happening. Therefore the effective capacity will be 30% more

Effective recharge capacity- 2052.735 cubic meters

ANNEXURE - VII

कार्तिक सुकत पक्ष-5, 2066

बिलासपुर

बिलासपुर

आम सूचना

सर्व संबंधितों को सूचित किया जाता है कि वर्षा पावर कंपनी लिमिटेड को प्रस्तावित 6x600 मेगावाट कोयला आधारित ताप विद्युत परियोजना ग्राम- सरिरा, तहसील अकलतरा, जिला जांघौर-चाम्पा (छ.ग.) को स्थापना हेतु पर्यावरण स्वीकृति पत्र क्रमांक-J13012/44/08-IA, II (T) के माध्यम से पर्यावरण एवं वन मंत्रालय, भारत सरकार (MOEF) द्वारा प्रदान की गई है। इस पत्र की प्रतिलिपि का अवलोकन छ.ग. पर्यावरण संरक्षण मंडल के कार्यालय तथा पर्यावरण एवं वन मंत्रालय, भारत सरकार (MOEF) की वेबसाइट <http://envfor.nic.in> पर भी किया जा सकता है।

वर्षा पावर कंपनी लिमिटेड
8-2-293/A/43/A, Road No. 22, Jubilee Hills
हैदराबाद

आम सूचना

सर्वसाधारण को सूचित किया जाता है कि भारत सरकार के वन एवं पर्यावरण के द्वारा गठित छ.ग. राज्य स्तरीय पर्यावरण प्रभाव निर्धारण प्राधिकरण के आदेश क्रमांक 275/SEIAA-CG/EC/Mining/BSP/72/09 dated 16.10.2009 के द्वारा मेरुस अग्रवाल मिनरल्स बिलासपुर को ग्राम खरकेना, तहसील तखतपुर, जिला- बिलासपुर (छ.ग.) की डोलोमाइट खदान (5.70 हेक्टेयर) पर खनन हेतु पर्यावरणीय स्वीकृति प्रदान कर दी गयी है। उक्त पर्यावरणीय स्वीकृति आदेश की एक प्रति छ.ग. प्रदूषण नियंत्रण बोर्ड रायपुर के समक्ष सुरक्षित है तथा उक्त आदेश को छ.ग. राज्य स्तरीय पर्यावरण प्रभाव निर्धारण प्राधिकरण की वेबसाइट www.envfor.nic.in पर भी देखा जा सकता है।

अतः सर्वसाधारण को सूचित हो।
अधिकृत हस्ताक्षरकर्ता
मेरुस अग्रवाल मिनरल्स
लाजपतरायनगर, बिलासपुर (छ.ग.)

अत्यंत महत्वपूर्ण सूचना
सर्वसाधारण को सूचित किया जाता है कि वर्षा पावर कंपनी लिमिटेड को प्रस्तावित 6x600 मेगावाट कोयला आधारित ताप विद्युत परियोजना ग्राम- सरिरा, तहसील अकलतरा, जिला जांघौर-चाम्पा (छ.ग.) को स्थापना हेतु पर्यावरण स्वीकृति पत्र क्रमांक-J13012/44/08-IA, II (T) के माध्यम से पर्यावरण एवं वन मंत्रालय, भारत सरकार (MOEF) द्वारा प्रदान की गई है। इस पत्र की प्रतिलिपि का अवलोकन छ.ग. पर्यावरण संरक्षण मंडल के कार्यालय तथा पर्यावरण एवं वन मंत्रालय, भारत सरकार (MOEF) की वेबसाइट <http://envfor.nic.in> पर भी किया जा सकता है।

सभी अतिथियों का शांत दिनांक : 23.10.2009
स्थान : शा. बालक उ.मा शांत
सौजन्यमंडिकेदार सुयश वि

49
सर्वसाधारण को सूचित किया जाता है कि वर्षा पावर कंपनी लिमिटेड को प्रस्तावित 6x600 मेगावाट कोयला आधारित ताप विद्युत परियोजना ग्राम- सरिरा, तहसील अकलतरा, जिला जांघौर-चाम्पा (छ.ग.) को स्थापना हेतु पर्यावरण स्वीकृति पत्र क्रमांक-J13012/44/08-IA, II (T) के माध्यम से पर्यावरण एवं वन मंत्रालय, भारत सरकार (MOEF) द्वारा प्रदान की गई है। इस पत्र की प्रतिलिपि का अवलोकन छ.ग. पर्यावरण संरक्षण मंडल के कार्यालय तथा पर्यावरण एवं वन मंत्रालय, भारत सरकार (MOEF) की वेबसाइट <http://envfor.nic.in> पर भी किया जा सकता है।

दूसरा स्थान मिल
अशोक को

बिलासपुर

वर्षा पावर कंपनी लिमिटेड को प्रस्तावित 6x600 मेगावाट कोयला आधारित ताप विद्युत परियोजना ग्राम- सरिरा, तहसील अकलतरा, जिला जांघौर-चाम्पा (छ.ग.) को स्थापना हेतु पर्यावरण स्वीकृति पत्र क्रमांक-J13012/44/08-IA, II (T) के माध्यम से पर्यावरण एवं वन मंत्रालय, भारत सरकार (MOEF) द्वारा प्रदान की गई है। इस पत्र की प्रतिलिपि का अवलोकन छ.ग. पर्यावरण संरक्षण मंडल के कार्यालय तथा पर्यावरण एवं वन मंत्रालय, भारत सरकार (MOEF) की वेबसाइट <http://envfor.nic.in> पर भी किया जा सकता है।

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अधिकृत हस्ताक्षरकर्ता
(विशेष कुमार अग्रवाल)
मेरुस अग्रवाल मिनरल्स
लाजपतरायनगर, बिलासपुर (छ.ग.)

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क्र.सं.	विवरण	प्रकार	मूल्य
1
2
3
4
5

अतः सर्वसाधारण को सूचित हो।

ANNEXURE - VIII

CEMS –I Installed at KSK- MPCL



CEMS –II Installed at KSK- MPCL



C-EQMS Installed at KSK – MPCL Site :



CAAQMS INSTALLED AT KSK-MPCL



**Installed at
Living Qtrs.**



**Installed at
Sub station**



**Installed
back side to
switch yard**

ANNEXURE – VIII (A)

**ENVIRONMENTAL STATEMENT
FINANCIAL YEAR: 2016-2017**

Of



KSK MAHANADI POWEWR COMPANY LIMITED

Unit#1 & 2 (2 x 600MW)

for

June-2017

Village- Nariyara, Tehsil- Akaltara

District- Janjgir-Champa

Chhattisgarh

FORM - V
(See Rule 14)

Environmental Statement Report for the financial year ending the 31st March, 2017.

PART-A

- (i) Name and address of the Owner/Occupier of the Industry, Limited
Operation or process. : Mr. K.A Sastry, Director
M/s KSK Mahanadi Power Company
Village- Nariyara, Tehsil-Akaltara,
District- Janjgir-Champa, Chhattisgarh
- (ii) Industry Category : Red A Category
- (iii) Production capacity : 2 x 600 MW
- (iv) Year of Establishment : 16th Feb 2010
Commercial operation date : 13th Aug 2013 (for Unit#1)
26th Aug 2014 (for Unit#2)
- (v) Date of the last environmental Audit Report submitted : 1st September, 2016

PART-B

Water and Raw Material Consumption

i) **Water Consumption:**

Raw Water	During the previous financial year 2015-16	During the Financial Year 2016-17
For production of DM plant water (m3)	0	0
For cooling water & miscellaneous (m3)	1,39,50,007	1,36,37,039
Potable water (m3)	1,61,694	1,64,058
Total	1,41,11,701	1,38,01,097

Name of the product:	Water consumption per unit of product	
	During the previous FY 2015-16	During the FY 2016-17
Specific water consumption (KL/MWH)	2.09	2.2
		Details enclosed as Annexure-I
Gross electricity generated (MU)	Electricity generation	
	During the previous Financial Year 2015-16	During the Financial Year 2016-17
	6367.56	6702.58
		Details enclosed as Annexure-II

ii) **Raw Material consumption:**

s.no	Name of raw materials.	Name of products	Consumption of raw material per unit of output (kg/Kwh)	
			During the previous FY 2015-16	During the FY 2016-17
1	Coal	Electricity	0.61	0.61
2	LDO/ HFO (Only during start up)		0.51 ml/Kwh	0.5

PART-C

Pollution Generated
(Parameters as specified in the Consent issued)

Pollution discharged to Environment/ unit of output

(i) Pollutant	Quantity of Pollution Generated	Percentage of variation from Prescribed Standards
---------------	---------------------------------------	---

**a) Waste Water
Condenser Cooling Water**

Parameters	Limit	Range of conc.	% age of variation
pH	6.5- 8.5	7.4	Within limits
Temp	<5 Deg C	4	Within limits
FA Chlorine	0.5 mg/L	<0.2	Within limits

Boiler Blow Down

Parameters	Limit	Range of conc.	% age of variation
Suspended solid	100mg/L	22-34	Within limits
Oil & Grease	20 mg/L	<1.0	Within limits
Copper	1 mg/L	<0.01	Within limits
Iron	1 mg/L	0.002-0.04	Within limits

Cooling Tower Blow Down

Parameters	Limit	Range of conc.	% age of variation
FA Chlorine	0.5 mg/L	<0.2	Within limits
Zinc	1.0 mg/L	<0.05	Within limits
Chromium (T)	0.2 mg/L	<0.01	Within limits
Phosphate	5.0 mg/L	0.49	Within limits

b) Air

Stack emission characteristics Unit#1		Quantity Kg/hour	Average concentration (mg/Nm3)	% Variation
Parameters	Limit			
Particulate Matter (PM)	50mg/Nm ₃	64.5	29	-42

Stack emission characteristics Unit#2		Quantity Kg/hour	Average concentration (mg/Nm3)	% Variation
Parameters	Limit			
Particulate Matter (PM)	50mg/Nm ₃	61	27.4	-45.2

PART-D

Hazardous Wastes

(As specified under Hazardous Wastes (Management, Handling and Transboundary Movement Rules, 2008))

Hazardous Wastes	Total Quantity During the previous financial year (2015-16)	During the financial year (2016-17)
(a) From Process Waste oil	Nil	Nil
(b) From Pollution Control Facility.	Nil	Nil
(c) Quantity recycled or re-utilized.	Nil	21.94 MT of Used Oil (Category no.-5.1) has been disposed to Authorized Recycler of Hazardous Waste.

PART-E

Solid Wastes

	Total Quantity	
	During the previous Financial year (2015-16)MT	During the current Financial year (2016-17)(MT)
(a) From process Fly ash	13,56,285	14,03,596.52
(b) From Pollution Control facility		
(c) Quantity recycled or re utilized i) Fly Ash	Nil	Nil
**Given to cement industry and brick, manufacturers.	8,75,329.16	11,50,195.62

PART-F

Please specify the characteristics in terms of composition and quantum of Hazardous waste as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Hazardous waste:

The generated used/spent oil is hydrocarbon in nature. 21.94 MT of used oil (under category No.-5.1) is already disposed to authorized recycler of Hazardous Waste during this FY 2016-17. Now 3.8 MT of Used oil kept under storage shed which to be disposed-off in next phase.

Fly Ash and Bottom Ash:

At present, only Fly Ash & Bottom Ash as Solid Waste is being generated from current power plant operation activities. Fly ash is being collected & Stored at 3900m³ capacity Silo, thereafter pneumatically

It is being transfer to Bulklers through the air tight telescopic chute use in Cement & Brick Manufacturing industry. Bottom Ash disposed to Ash Pond/dyke. 34% of the Ash Generated from plant operation is utilized by dispatching to Cement & Brick Manufactures (Ash Dyke storage optimization) Details is enclosed as **Annexure- III**.

Data of Industrial Effluent

Annexure- IV

Monthly Source Emissions Unit # I

Annexure- V

Monthly Source Emissions Unit # II

Annexure- V (A)

SUMMARY OF AMBIENT AIR QUALITY RESULTS (Inside Plant)

Annexure- VI

SUMMARY OF AMBIENT AIR QUALITY RESULTS (Outside Plant)

Annexure- VI (A)

PART-G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production:

1. Low Sulphur Coal is used for power generation: Enabling to lower the So₂ – Emission.
2. For Coal transportation through Train- Merry go round track is being used. (i.e. minimize line source emission & Fuel Conservation).
3. For Coal transportation through Roads: Tarpaulin covered trucks/dumpers are being following (To minimize Secondary /Tertiary fugitive dust emission.
4. Optimal Usage of Combustion support or Auxiliary fuels i.e LDO/HFO (lower per MW Liquid fuel cost)
5. Optimization of Coal Inventory level.
6. Reuse & recycle of waste water (Boiler, CT Blow down & DM Plant for ash handling purpose (Reducing demand for fresh raw water).
7. 34% of the Fly Ash Generation from plant operation is utilized by dispatching it to Cement & Bricks Manufactures (Ash Dyke storage optimization)
8. Use of Low – NO_x Burner in furnace (Energy Conservation)
9. All the major Drives are VFD (Energy Conservation)
10. Dust extraction systems are provided & operation to minimize coal dust losses through fugitive dust emission.
11. Development of Greenbelt for 224 Ha plant areas, with 297000 nos. of plants.

PART-H

Additional measures investment proposal for environmental protection including abatement of pollution prevention of pollution.

Real time data display in Main Gate as well as Website.

Installation & Operation Continuous Stack Emission monitoring system.

Installation & Operation Continuous Ambient Air Quality monitoring system.

Installation & Operation Continuous waste water analyzer system

Plantation of 50000 nos. (approx.) of various species to be developed within 20 Ha of plant lease area during FY 2017-18.

PART-I
Miscellaneous

Any other particulars for improving environment protection and abatement of pollution.

1. Development of Greenbelt, ranging 50 to 100m width, by using Local Climate suitable Fast growing plant species.
2. Water sprinkling arrangement facilitate at all the dust prone areas including Coal yard area.
3. Installation of bag filters & Dry Fog System over the Coal conveyor Transfer Towers.
4. Internal Pucca roads have been developed inside the plant premises.
5. Necklace drains provided in and around the Coal yard and other area to prevent leachate water.

ANNEXURE – I

WATER CESS RETURN DETAILS FOR FY 2016-17

Consumption of Raw Water (KL)				Reuse/Recycling of waste water (KL)		
Month	Category 1		Category 2	Category 4		
	Cooling Tower Operation.	Boiler Water	Portable	ETP Clarifier plus	Ash Handling	STP
				RO+UF Circuit for		
				DM Water Production		
Apr-16	1676945	0	12318	32680	124365	6457
May-16	1439920	0	12739	38136	110119	5815
Jun-16	1384534	0	10,916	42884	94590	5500
Jul-16	970976	0	8264	39149	81040	3435
Aug-16	1171613	0	13227	46361	99120	3900
Sep-16	968485	0	10775	34252	66217	2950
Oct-16	672304	0	13375	39255	32937	4415
Nov-16	777095	0	14658	43876	39404	3674
Dec-16	780861	0	16537	26916	36651	4049
Jan-17	1111157	0	15753	52837	64786	5800
Feb-17	1186768	0	16429	63061	44675	9350
Mar-17	1496381	0	19067	48959	43083	10420
Total	13637039	0	164058	508366	836987	65765

ANNEXURE – II

POWER GENERATION AND COAL CONSUMPTION DETAILS FOR FY 2016-17

Month	Month wise Gross Power Generation Details (MU)		Month wise Coal Consumption Detail's (MT)	
	unit # 1	Unit # 2	unit # 1	Unit # 2
Apr-16	362.9	370.35	219439	216404
May-16	281.82	256.51	183012	163337
Jun-16	245.31	347.3	153165	209581
Jul-16	121.57	384.55	73618	237366
Aug-16	342.77	291.76	200159	176533
Sep-16	272.78	261.59	163826	164539
Oct-16	115.55	217.99	74437	139105
Nov-16	288.78	100.53	173036	63123
Dec-16	392	1.07	233077	775
Jan-17	393.12	210.78	227552	125529
Feb-17	337.82	314.05	195184	185917
Mar-17	392.21	399.47	227812	239340
Total	3546.63	3155.95	2124317	1921549

ANNEXURE – III

AFLY ASH GENERATION & UTILISATION DETAILS FOR FY 2016-17				
Month	Fly Ash Generation (MT)	Fly Ash Utilized- Dispatched to Cement Plant. (MT)	Fly Ash Utilized for other purpose (MT)	Percentage of Utilisation (%)
Apr-16	147378	103843	0	70
May-16	130042.8	109869	0	85
Jun-16	128818	125241	0	97
Jul-16	114659	102046	0	90
Aug-16	128127.6	116596.1	0	91
Sep-16	115299.7	105270.5	0	91
Oct-16	78167.22	66691.84	0	85
Nov-16	88731	69371	0	78
Dec-16	87930.3	66375.8	0	76
Jan-17	114160.3	88037.5	243.52	68
Feb-17	124453.7	93551.2	1108.43	76
Mar-17	145828.9	100907.24	1043.49	70
Total	1403596.5 2	1147800.18	2395.44	82

ANNEXURE – IV

DATA OF INDUSTRIAL EFFLUENT (Guard Pond) from APRIL 2016 - MARCH 2017

Month	pH	Total Suspended solids mg/l	Oil & Grease mg/l
Apr -16	7.4	48	<1.0
May -16	8.1	54	<1.0
Jun - 16	7.9	63	<1.0
July - 16	7.6	57	<1.0
Aug - 16	7.4	64	<1.0
Sep - 16	7.7	60	<1.0
Oct - 16	7.9	55	<1.0
Nov - 16	7.8	63	<1.0
Dec - 16	7.9	57	<1.0
Jan - 17	8.0	61	<1.0
Feb - 17	7.1	53	<1.0
Mar - 17	7.5	62	<1.0

ANNEXURE – V

Monthly Source Emissions (Unit # I) from April 2016 - March 2017

Sr. No.	Month	Particulate Matter (mg/Nm³)	SO₂ (mg/Nm³)	NO_x (mg/Nm³)
1	Apr - 2016	30.2	203.0	234.0
2	May - 2016	33.7	218.0	247.0
3	June 2016	33.7	226.0	204.0
4	July -2016	35.0	237.0	212.0
5	Aug - 2016	33.9	1334	330
6	Sep - 2016	21.8	1202	445
7	Oct - 2016	-	-	-
8	Nov – 2016	26.5	-	-
9	Dec - 2016	22.1	-	-
10	Jan - 2017	-	-	-
11	Feb - 2017	25.8	760.0	482.0
12	Mar - 2017	27.3	803.0	418.0

ANNEXURE – V(A)

Monthly Source Emissions (Unit#2) from April 2016 - March 2017

Sr. No.	Month	Particulate Matter (mg/Nm³)	SO₂ (mg/Nm³)	NO_x (mg/Nm³)
1	Apr - 2016	33.1	213.0	248.0
2	May - 2016	32.4	207.0	256.0
3	Jun - 2016	26.9	232.0	214.0
4	July - 2016	30.5	225.0	209.0
5	Aug - 2016	31.4	1107	563.0
6	Sep - 2016	17.1	1054.0	491.0
7	Oct - 2016	23.5	1035.0	605.0
8	Nov - 2016	22.4	-	-
9	Dec - 2016	-	-	-
10	Jan - 2017	-	-	-
11	Feb - 2017	27.2	811.0	515.0
12	Mar - 2017	29.7	903.0	434.0

SUMMARY OF AMBIENT AIR QUALITY RESULTS from APRIL 2016 to MARCH 2017

Location: (In Side Plant) DM Pant

PM 2.5				PM 10				SO ₂				NO _x			
Min.	Max.	Avg.	98%	Min	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%
29.8	40.8	35.3	37.0	58.4	73.1	64.2	66.7	11.1	17.7	13.7	14.6	14.1	22.6	16.9	18.1

C6H6				Benzo Pyrene				Arsenic				Nickel			
Min.	Max.	Avg.	98%	Min	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98 %
<0.0 1	<0.01	<0.01	<0.01	<1.0	<1.0	<1.0	<1.0	<0.001	<0.001	<0.001	<0.001	<0.1	0.3	0.2	0.2

Lead				O3				CO				NH3			
Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%
<0.01	0.005	0.002	0.003	5.5	14.6	10.1	13.5	142	273	212.4	258.8	<20	<20	<20	<20

(All values are expressed in $\mu\text{g}/\text{m}^3$)

Location: BTG Area (Inside Plant)

PM 2.5				PM 10				SO ₂				NO _x			
Min.	Max.	Avg.	98%	Min	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%
28.8	42.9	36.6	38.4	59.4	76.6	67.1	69.0	11.6	18.1	14.2	15.3	14.1	23.7	17.7	19.2

C6H6				Benzo Pyrene				Arsenic				Nickel			
Min.	Max.	Avg.	98%	Min	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%
<0.01	<0.01	<0.01	<0.01	<1.0	<1.0	<1.0	<1.0	<0.001	<0.001	<0.001	<0.001	<0.1	0.4	0.2	0.3

Lead				O ₃				CO				NH ₃			
Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%
<0.01	0.005	0.002	0.003	6	15.4	10.7	14.2	176	286	231.7	272.8	<20	<20	<20	<20

(All values are expressed in $\mu\text{g}/\text{m}^3$)

Location: CHP Area (Inside Plant)

PM 2.5				PM 10				SO ₂				NO _x			
Min.	Max.	Avg.	98%	Min	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%
31.6	44.8	37.6	39.5	61.3	78.1	69.1	72.0	12.3	23.8	16.5	17.9	15.4	29.3	20.5	22.4

C6H6				Benzo Pyrene				Arsenic				Nickel			
Min.	Max.	Avg.	98%	Min	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98 %
<0.0 1	<0.01	<0.01	<0.01	<1.0	<1.0	<1.0	<1.0	<0.001	<0.001	<0.001	<0.001	<0.1	0.8	0.3	0.4

Lead				O ₃				CO				NH ₃			
Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%
<0.00 1	0.007	0.003	0.005	5.5	15.8	10.9	14.7	185	303	243.7	285.8	<20	<20	<20	<20

(All values are expressed in µg/m³)

Location: SILO Area (Inside Plant)

PM 2.5				PM 10				SO ₂				NO _x			
Min.	Max.	Avg.	98%	Min	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98 %
25.6	45.2	36.0	38.0	57	80.6	70.3	72.3	12.3	19	14.8	15.9	14.4	24.1	18.5	20.1

C6H6				Benzo Pyrene				Arsenic				Nickel			
Min.	Max.	Avg.	98%	Min	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%
<0.1	<0.01	<0.01	<0.01	<1.0	<1.0	<1.0	<1.0	<0.001	<0.001	<0.001	<0.001	<0.1	0.4	0.2	0.3

Lead				O ₃				CO				NH ₃			
Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%
<0.001	0.006	0.002	0.003	5.7	15.2	10.9	14.2	179	298	236.8	280.2	<20	<20	<20	<20

(All values are expressed in $\mu\text{g}/\text{m}^3$)

ANNEXURE – VI(A)

SUMMARY OF AMBIENT AIR QUALITY RESULTS from APRIL 2016 to MARCH 2017

Location: Jhalmala (Outside Plant)

PM 2.5				PM 10				SO ₂				NO _x			
Min.	Max.	Avg.	98%	Min	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98 %
20.2	29.5	25.4	27.1	48.5	61.7	55.3	57.2	8.4	14	11.4	12.4	10.6	16.8	14.0	15.1

C6H6				Benzo Pyrene				Arsenic				Nickel			
Min.	Max.	Avg.	98%	Min	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98 %
<0.0 1	<0.01	<0.01	<0.01	<1.0	<1.0	<1.0	<1.0	<0.001	<0.001	<0.001	<0.001	<0.1	<0.1	<0.1	<0.1

Lead				O ₃				CO				NH ₃			
Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%

Environmental Statement Report for 2016-17 of KSK Mahanadi Power Company Limited, Unit#1& 2 (2 x 600W TPP)

<0.00 1	0.001	0.001	0.001	4.5	12.8	8.9	12.1	142	245	194.6	233.0	<20	<20	<20	<20
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(All values are expressed in $\mu\text{g}/\text{m}^3$)

Location: Tarod (Outside Plant)

PM 2.5				PM 10				SO ₂				NO _x			
Min.	Max.	Avg.	98%	Min	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98 %
20.6	32.1	26.6	28.8	48.8	65.4	56.9	59.5	9.3	14.2	11.9	13.0	12.4	18.9	14.9	15.8

C6H6				Benzo Pyrene				Arsenic				Nickel			
Min.	Max.	Avg.	98%	Min	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98 %
<0.0 1	<0.01	<0.01	<0.01	<1.0	<1.0	<1.0	<1.0	<0.001	<0.001	<0.001	<0.001	<0.1	<0.1	<0.1	<0.1

Lead				O3				CO				NH3			
Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%

Environmental Statement Report for 2016-17 of KSK Mahanadi Power Company Limited, Unit#1& 2 (2 x 600W TPP)

<0.00 1	0.003	0.002	0.002	4.7	13.5	9.3	12.5	128	302	185.1	232.4	<20	<20	<20	<20
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(All values are expressed in $\mu\text{g}/\text{m}^3$)

Location: Amora (Outside Plant)

PM 2.5				PM 10				SO ₂				NO _x			
Min.	Max.	Avg.	98%	Min	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98 %
18.4	30.3	25.1	27.2	51.9	66.8	58.6	61.5	9.6	14.6	12.0	12.8	12.6	18.1	15.0	16.2

C6H6				Benzo Pyrene				Arsenic				Nickel			
Min.	Max.	Avg.	98%	Min	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98 %
<0.0 1	<0.01	<0.01	<0.01	<1.0	<1.0	<1.0	<1.0	<0.001	<0.001	<0.001	<0.001	<0.1	<0.1	<0.1	<0.1

Environmental Statement Report for 2016-17 of KSK Mahanadi Power Company Limited, Unit#1& 2 (2 x 600W TPP)

Lead				O3				CO				NH3			
Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%
<0.00															
1	0.003	0.001	0.002	5.2	13.7	9.3	12.4	136	241	187.8	227.1	<20	<20	<20	<20

(All values are expressed in $\mu\text{g}/\text{m}^3$)

Location: Sonsari (Outside Plant)

PM 2.5				PM 10				SO ₂				NO _x			
Min.	Max.	Avg.	98%	Min	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98 %
17.1	29.8	24.6	26.5	52.6	63.6	57.1	59.3	9.4	13.6	11.9	12.6	12	17.9	14.6	15.6

C6H6				Benzo Pyrene				Arsenic				Nickel			
Min.	Max.	Avg.	98%	Min	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%
<0.0	<0.01	<0.01	<0.01	<1.0	<1.0	<1.0	<1.0	<0.001	<0.001	<0.001	<0.001	<0.1	<0.1	<0.1	<0.1

Environmental Statement Report for 2016-17 of KSK Mahanadi Power Company Limited, Unit#1& 2 (2 x 600W TPP)

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Lead				O3				CO				NH3			
Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%
<0.00															
1	0.002	0.001	0.002	4.9	13.1	9.0	12.0	132	244	185.0	225.8	<20	<20	<20	<20

(All values are expressed in µg/m³)

Location: Nariyara (Outside Plant)

PM 2.5				PM 10				SO ₂				NO _x			
Min.	Max.	Avg.	98%	Min	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%
21	30.9	26.1	27.8	49.7	62.8	56.7	58.7	9.5	13.9	11.5	12.4	11.4	16.9	14.1	15.2

C6H6				Benzo Pyrene				Arsenic				Nickel			
Min.	Max.	Avg.	98%	Min	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98

Environmental Statement Report for 2016-17 of KSK Mahanadi Power Company Limited, Unit#1& 2 (2 x 600W TPP)

<0.01	<0.01	<0.01	<0.01	<1.0	<1.0	<1.0	<1.0	<0.001	<0.001	<0.001	<0.001	<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	<0.1	<0.1	<0.1	<0.1	<0.1

Lead				O3				CO				NH3			
Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%	Min.	Max.	Avg.	98%
<0.00	0.003	0.001	0.002	5	13.5	9.0	12.2	140	253	195.5	234.5	<20	<20	<20	<20
1															

(All values are expressed in $\mu\text{g}/\text{m}^3$)

ANNEXURE - IX



KSK Mahanadi Power Company Limited

CIN No : U40300TG2009PLC064062

Works

Near Nariyara Village,
Akaltara Tehsil,
Janjgir - Champa District,
Chhattisgarh
Tel (Site): 07817-284001

Registered Office

8-2-293/82/A/431/A,
Road No. 22, Jubilee Hills,
Hyderabad - 500033.
Tel: +91-40-23559922-25,
Fax: +91-40-23559930

Ref. No: MOEF2CC, NPUR / CVKP / IS 0010812061
Dt: 16.12.2015

To,

The Addl. Chief Conservator of Forests(C)
Regional office MoEF&CC, Regional Office (WCZ),
Ground Floor, East Wing, New Secretarial Building,
Civil Lines, Nagpur-440001
Maharashtra

Sub: Submission of Six Monthly Environment Clearance Compliance Status Report.

Ref.: MoEF Letter No-J – 1302/44/08-IA,II(T), Dated 19th Oct, 2009

Dear Sir,

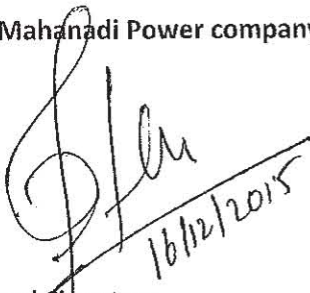
With reference to the Environment Clearance letter as cited above for KSK Mahanadi Power Company Ltd at Nariyara Village, Akaltara-Tehsil, Janjgir –Champa District, Chhattisgarh for 6x 600 MW Coal based Power Project, we are pleased to submit the Half Yearly Compliance status report for the period of June -2015 to November-2015 for your kind perusal.

This is for your kind information & records please.

Thanking you,

Yours Faithfully,

For KSK Mahanadi Power company Limited


16/12/2015
Authorized Signatory

Copy To : The Member Secretary, CECB Raipur
RO- CECB, Bilaspur



DMS Audit

KSK Mahanadi Power Company Limited

CIN No : U40300TG2009PLC064062

Works

Near Nariyara Village,
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Road No. 22, Jubilee Hills,
Hyderabad - 500033.
Tel: +91-40-23559922-25,
Fax: +91-40-23559930

Ref. No: CECB, BILAS/1500108/2063
Date: 16.12.2015

To,

The Regional Officer,
Chhattisgarh Environment Conservation Board,
Vyapar Vihar, Near Pt. Deendayal Upadhyaya Park,
Bilaspur, Chhattisgarh.

Sub: Submission of Six Monthly Environment Clearance Compliance Status Report.

Ref.: MoEF Letter No-J – 1302/44/08-IA,II(T), Dated 19th Oct,2009

Dear Sir,

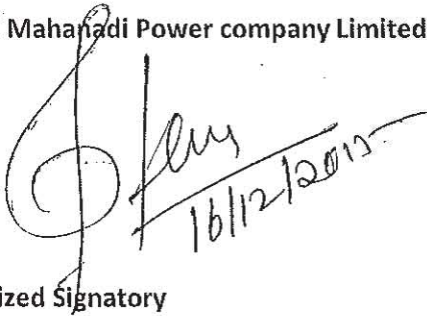
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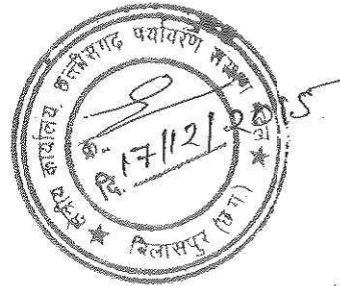
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Yours Faithfully,

For KSK Mahanadi Power company Limited


16/12/2015

Authorized Signatory



Copy To : Addl-CCF, Regional office MoEF&CC, Nagpur
The Member Secretary, CECB Raipur